



**PRODUCT  
CATALOGUE**

**2015**



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# **YOUR FIRST CHOICE FOR ALL SURFACES.**

**Dear Customers,**

To be our customers' first choice – that's quite a call. Mainly for ourselves. Since 1887, we've been manufacturing professional tools for a wide range of tasks involved with surface processing and finishing. During this time we have expanded our know-how continuously, not least of all by growing our group of companies.

**We like to see ourselves as your partner and want to inspire you.**

Let's get together to develop the best solutions and products to meet the highest demands.



As your First Choice Partner, we offer you above all a **first-class service**. This ranges from individual product solutions, to customer-friendly packaging that sells itself, to a 24/7 online order service.

One item that we've made our very own is **best-possible reliability**. With our TÜV-tested, certified products, we guarantee you maximum reliability - and that makes us unique in our industry.

Finally, we guarantee you the **maximum efficiency** of our products. We've replaced "service life", that difficult to grasp term favored by our industry, with "metre performance". The details of metre performance on the product make it predictable when you buy it, and increase the efficiency of the user.

The figures below are also impressive evidence that you can place your trust in us.

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**KNOW-HOW FOR  
MORE THAN  
125  
YEARS**

**SUBSIDIARIES  
IN  
14  
COUNTRIES**

**SALES OFFICES  
IN  
23  
COUNTRIES**

**SERVICE  
IN  
120  
COUNTRIES**

**MORE  
THAN  
2,000  
EMPLOYEES  
WORLDWIDE**

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We look forward to working with you as partners and will make every effort to be your first choice in the future as well.

Your Osborn Sales Team

# THE BEST SERVICE AT ALL LEVELS



## Service means just that - service.

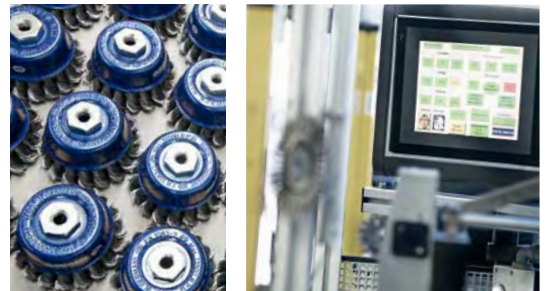
It's not just a matter of dependable ordering, attractive conditions and fast delivery. We have that already, of course. We offer our customers a 100% service.

But service at Osborn starts very early on.

## Good service starts with a good product.

A good tool has to feel right in the hand and harmonise 100% with the machine. That's why we place great value on the ergonomics and handling of our products. Osborn tools are designed to suit all common machines and are also tested thoroughly on them.

**Good service for us means developing products that make your work easier.**

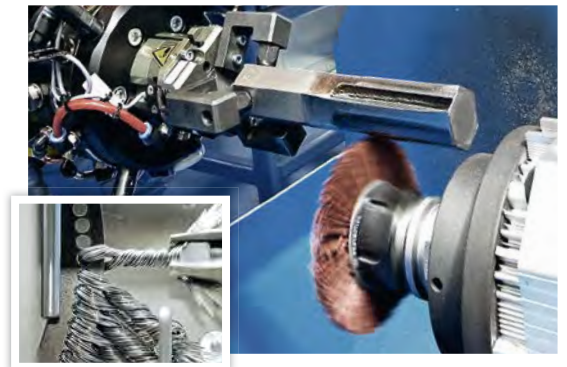


In our R&D centre, we use the latest technology to achieve maximum ease of use and safety.

## Individual solutions for your company.

We develop products that perfectly suit the needs and demands of our customers. It doesn't matter whether they're from our huge standard range or the result of a customer-specific solution developed jointly with you.

**Our aim is always to make the user's work easier.**



## Our packaging is our best salesman.

A lot of information has to be taken in and considered on the shelf and on the packaging. We place great value here on an uncluttered appearance and easily read and self-explanatory information. Well structured packaging helps the customer to find the right product and saves the dealer consultation time.







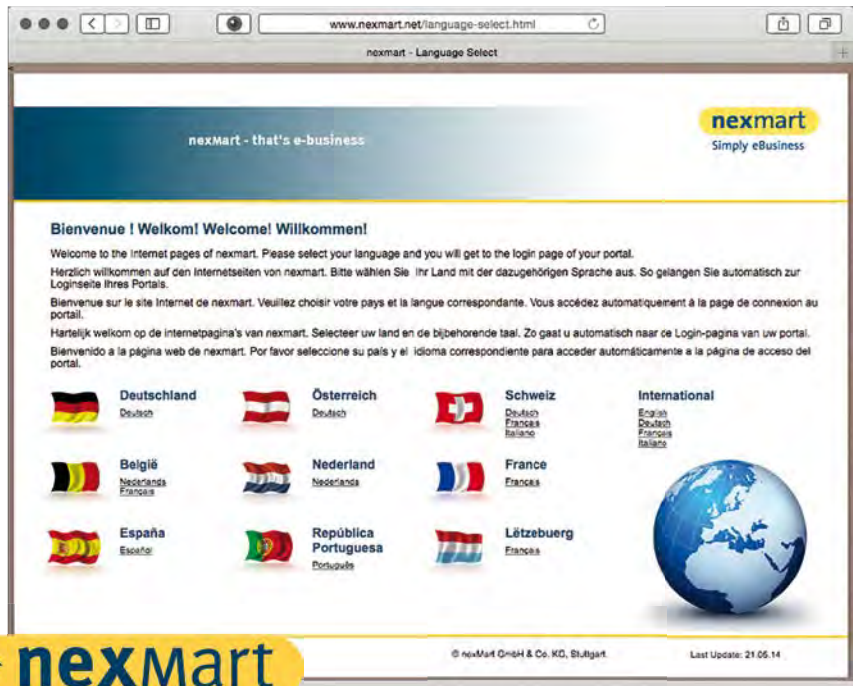
No matter when or where, Osborn accepts your order and sees to its punctual delivery.

## 24/7 availability worldwide.

Rapid response and delivery times are a fundamental element of a modern service/customer relationship.

For you as a dealer, they are not only the basis for a good and profitable business partnership but also have to be characterised by uncomplicated and reliable operation.

**nexMart offers its dealers the convenience of an online order platform and has been available in many European countries for some time now.**



nexMart – easy ordering around the clock

The nexMart Internet platform is the biggest information source in the industry and allows convenient, digital ordering with full order functionality – whenever and wherever you need it.



# A QUESTION OF SAFETY



## Work safety – a key issue for users and dealers.

That's why Osborn takes the subject very seriously. Users and dealers are safe with us because most **Osborn tools are TÜV-certified.** This means that safety for you is not only perceivable but also measurable.

## Safety with a seal. More than 700 Osborn products now have TÜV certification.

Osborn quality is not just a promise but is signed and sealed. More than 700 of our products have been certified by TÜV-Süd. This makes Osborn products the only ones on the market to meet the highest standards of quality and safety.

### Our quality standard: to always have the best tool for every job.

That is why we combine top-quality raw materials, years of experience, high-precision manufacturing methods and meticulous finishing so our customers can rely on Osborn.



One of more than 700 TÜV-Süd certified Osborn products



## Osborn: Officially good!

A TÜV seal means "tested without compromise" and indicates quality at the first glance. Osborn is the only manufacturer in its sector to obtain this certification.





**Visible quality.**

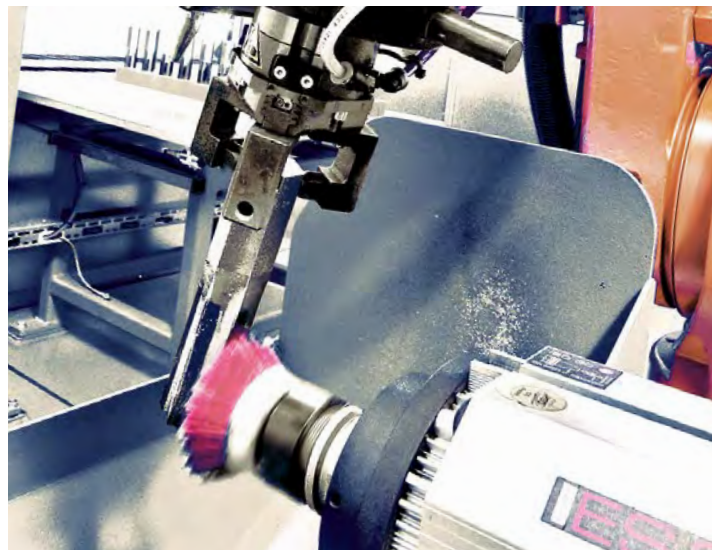
The TÜV seal on the new packaging catches the eye immediately. Clearly visible on the shelf, the seal tells consumers immediately that Osborn quality has gained official confirmation.

You can tell a product is TÜV-certified by the packaging.

Safety

**Unique tool. Repeated testing.**

All products undergo a wide variety of tests for TÜV-Süd certification. In addition to these checks, all our products are subjected to our own comprehensive tests in order to guarantee the Osborn quality standard. Our customers benefit time and again from double quality testing which ensures consistently high standards in terms of materials, finish and safety.



**YOUR ADVANTAGE  
EXCLUSIVELY WITH OSBORN**

With its TÜV certification, Osborn promises more than just a quality commitment. Osborn products have proven they perform as promised. Under all conditions. This clearly makes Osborn the first choice when it comes to superbly manufactured tools of unbeatable quality.



# MAXIMUM EFFICIENCY

**1<sup>ST</sup>**  
MORE  
**EFFICIENCY**  
THANKS TO METRE PERFORMANCE

**Efficient planning, efficient ordering.**

"Service life", the term widely used in the industry, makes it difficult to estimate material requirements accurately. No-one knows exactly how long it will take to finish a surface. However, the size of the surface is easy to determine.

**The metre performance makes work efficient and economical.**

**Only the metre performance matters.**

At Osborn, the focus is on the consumer. We have developed the concept of metre performance to provide faster and transparent evidence of product performance.

**Length x width. That's all you need for an efficient and needs-based purchase with Osborn.**



**Find information easily.**

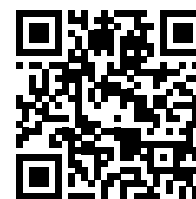
Metre performance on Osborn packaging: quick to find, easy to understand.



# DETERMINING METRE PERFORMANCE: THE TEST ROBOT



Test robot at Burgwald/Germany plant



Efficiency

The test robot at work.  
The QR code will take you directly to the film clip or use the address below to visit our YouTube channel.

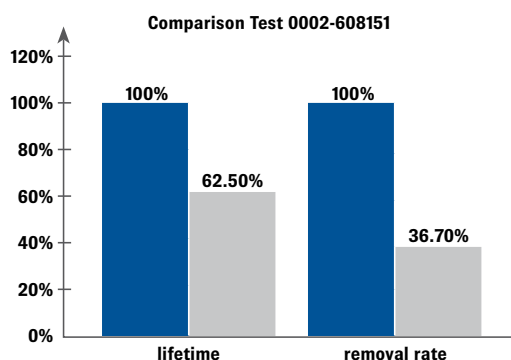
Watch the video on YouTube:  
[youtube.com/osbornsolutions](https://youtube.com/osbornsolutions)

## Accurate testing without compromise.

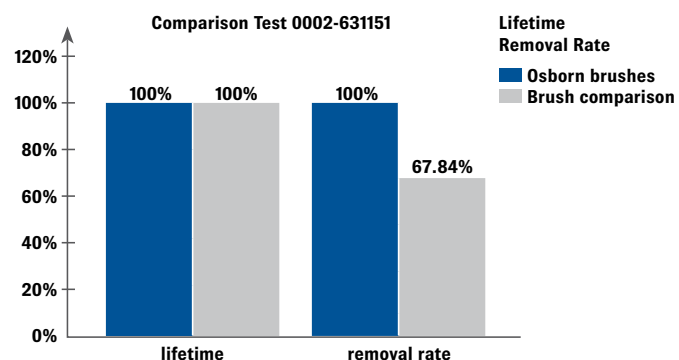
At Osborn, we use a state-of-the-art industrial robot to determine the exact metre performance of our products. The robot delivers accurate results and makes it possible to carry out a wide range of quality assurance checks, all under the same conditions. As well as providing pure performance data, the robot helps us through continuous monitoring to guarantee a consistent quality standard. Complex processes are easily replicated using realistic simulations to optimise the tool.

## Performance testing and comparison.

Quality demands, design, material and metre performance are not the only thorough tests our high-quality brushes undergo continuously on the test bench.



Test results for Osborn knotted wire crimped cup brushes.



Test results for Osborn knotted wire crimped wheel brushes.

# FASTER TO THE RIGHT PRODUCT

## 1. The best advice. On the packaging.

Osborn packaging now makes it even easier to find the right product.

In just **four quick steps** you can find the perfect tool from our wide range of brushes and other products.

Clearly displayed on our POS materials are the four, self-explanatory steps you need to obtain expert advice.

### 1. Problem-free selection:

Icons on the packaging tell you immediately which product matches which machine. Angle grinders, power drills or something quite different - this question is cleared up in a flash.



### 4. Product performance clear to everyone.

Product performance at a glance. The metre performance information is immediately visible on the front of the packaging, allowing the customer to purchase according to need.



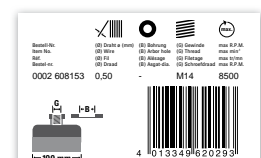
## 2. Quick info on trim materials:

Here, colours and text provide users with key information on the trim material. The colours also appear in the catalogue to help with material selection.



### 3. Detailed info on the product:

The details about the product provide information on size, speed or TÜV certification.



# SCAN. INFORM. DECIDE.

## Inform online – decide at the shelf.

Osborn links the shelf to the Internet. Customers have the option of loading **additional details and product information** directly onto their Smartphone, using the **QR codes** on our new packaging. It is so easy and lightening fast to clear up any questions about our products right there at the shelf.

The QR codes are located on our individual packaging, on loose products in boxes and on the display card.



Code on the packaging and the network directly at the POS.



### 1. QR code on shaft tags



### 2. QR code on product boxes



### 3. QR code on display cards



## YOUR OSBORN ADVANTAGE

### Efficient advice

The QR code is also a great source of advice as it allows the salesperson to access videos, pictures and information on the selected product quickly at the POS.



# INTELLIGENTLY PACKAGED & PRESENTED.

Osborn products come in different kinds of packaging, with each version explaining and promoting the product to the full.

## 1. Box/individual packaging



## 2. Display card

Users can better differentiate between products using the alternating machine and brush pictures on the display card.



## 3. Shaft tags in assortment box

All the key information is there in compressed form on the shaft tag of loose brushes in the assortment boxes. The double-sided display header can be used for brushes treating wood or metal. The cartons can be used length- or crossways.



## 4. Made to fit your sales modules

Our broad range of packaging offers you the opportunity to design your individual saleswall. Need help to pick the right products? Contact us.



(Illustration on right shows sample combination.)



# FIRST CHOICE ON THE WEB: "OSBORNSOLUTIONS" ON YOUTUBE

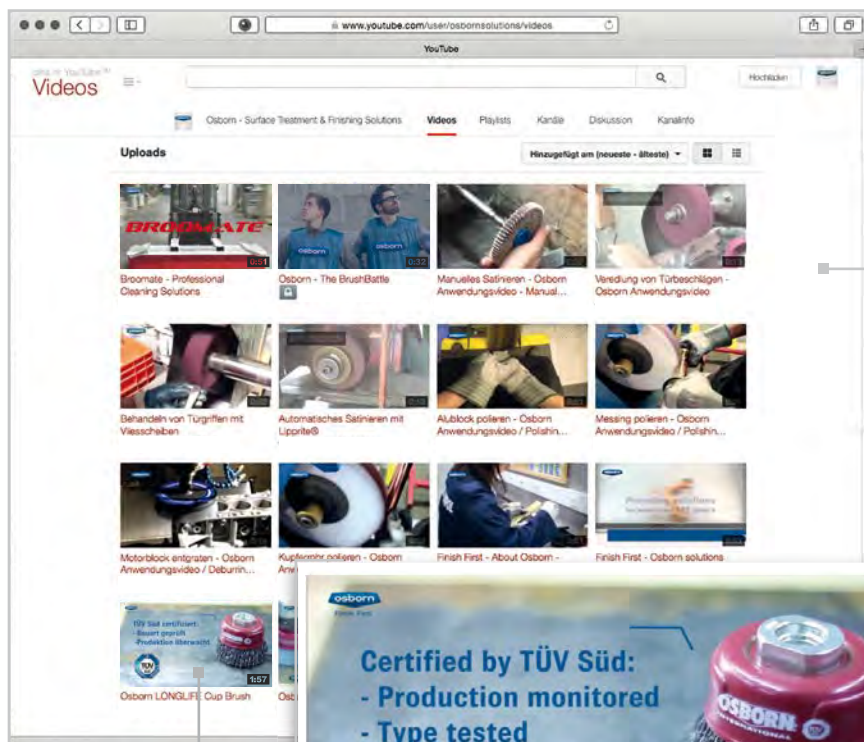
**Comprehensive product and application information, tips and suggested solutions for a professional surface treatment – available any time on the Osborn YouTube channel.**

Technical brushes are special, professional tools and therefore often call for more advice. By having its own YouTube channel, Osborn provides direct access to a **comprehensive range of information, tips and solutions for surface treatments** at first hand.

The Osborn YouTube channel helps answer user queries about the product easily, quickly and in context.



The official Osborn YouTube channel  
You can easily reach our YouTube channel using the QR code or this link:  
[youtube.com/osbornsolutions](https://www.youtube.com/osbornsolutions)



## Clip sample: Osborn LONGLIFE on the YouTube channel

In addition to information about the product (size, speed, trim) and safety (TÜV certification), the clip contains application tips and presents the advantages of the product in a performance comparison.



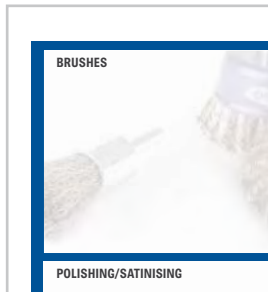
# PRODUCT OVERVIEW

## The fastest way to the best tool

### The whole range at a glance.

You start by deciding what you will be doing with the tool: brushing, polishing, satinising, grinding or a job needing one of our special tools.

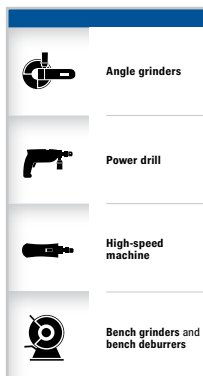
➔ See right-hand page.



### Products arranged by machine type.

The icons and the easy access system help you quickly find the right tool for the machine you want to use for your surface treatment.

➔ See right-hand edge of catalogue starting at the "Product overview" page.

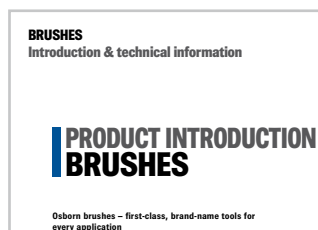


### Your tool in detail.

Once you have chosen a tool, the product introduction tells you all its main, important features.

➔ Product introductions can be found at the start of each chapter, **before** the main page.

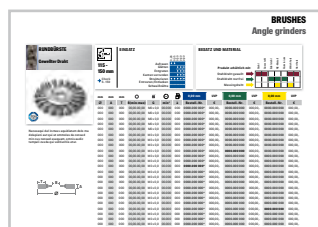
Additional, machine-specific information is located separately on the main pages **before** the products.



### The right one for the job.

Clearly arranged in tables to make it easy for you to choose the right tool for the job.

All information such as trim material, machine type and technical details at a glance.



**Trim materials:**

- Steel wire, knotted
- Steel wire, crimped/flat
- Steel wire, stainless
- Brass wire
- Abrasive bristle
- Nylon
- Natural bristle

**Captions**  
**Product illustration:**  
 Ø = Diameter (brush)  
 A = Operating width  
 T = Trim length  
 L = Length  
 K = Body width  
 Ø = Bore (machines)  
 B = Width (hand brushes)  
 Ø = Thread  
 F = Chuck capacity  
 C = Keyway height  
 S = Shank diameter  
 Ø = Tube  
 W = Work piece diameter

Products with this label are TÜV-certified.  
 ➔ for more information, see pp. 4/5

**Symbols:**

- bore
- ⊘ thread
- ⊕ Max. rotation
- 📦 Pcs.
- UVP RRP (Recommended Retail Price)

A simple colour system indicates the available trim materials. Important extra information such as diameter, trim length or body width is included in the caption to the product illustration.

Detailed explanations can be found on the fold-out at the back of the catalogue.

# PRODUCT OVERVIEW

## The fastest way to the best tool

Products

### BRUSHES



### POLISHING/SATINISING



### GRINDING



### INTERNAL FINISHING

### INDEX

# BRUSHES

## Introduction & technical information

# PRODUCT INTRODUCTION BRUSHES

### Osborn brushes – first-class, brand-name tools for every application.

There are any number of tasks and applications for a brush. But it is not just the job that determines which brush to use. The tool used and the surface to be finished are equally important.

To ensure you always have the best brush in each case, you should entrust your surfaces to a brand-name brush. This is the only way to guarantee that everything from trim material to brush shape is correct.

### Overview of the most common machine brushes:

**Wheel brushes**  
Finishing of solid or hollow rods, profiles, welded seams, cut edges, gears, grooves, narrow areas.

**Cup brushes**  
Efficient finishing of large areas, welding seams and metal plates.

**End brushes**  
Accurate finishing of inaccessible places and inner surfaces.

**Bevel brushes**  
Ideal tool for finishing corners, edges or inaccessible places, as well as surface cleaning.

**Flap wheel brushes**  
Can be used without problems in drills because of the light plastic body.

**Hand brushes, brooms and bristles**  
For universal use.

**Tube & internal brushes**  
Ideal for finishing drill holes, threads or cross holes (internal finishing chapter).

## THE OSBORN ADVANTAGE

Osborn has the right brush for every application.

As a professional partner to trade and industry, Osborn sells high-performance tools suitable for all applications throughout the world. You can rely on Osborn's many years of experience and skill.

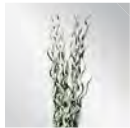


# BRUSHES

## Introduction & technical information

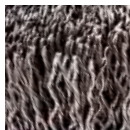
### Trim materials: the right material for every application

For our products, we only use trim materials that we have developed ourselves or which have been specifically selected. Constant laboratory tests ensure high material quality. Your Osborn tool is always perfectly suited to a certain type of brushing work. Our technical sales department will be pleased to advise you on the ideal trim material for your given application.



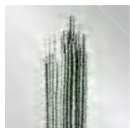
#### Steel wire, crimped

- Most common trim materials
- For flexible brushing tools
- Suitable for light surface treatment and deburring operations



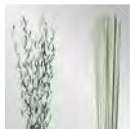
#### Steel wire, cord wire (long life)

- Cord wire with high tensile strength
- Extremely long-lasting
- Combined advantages of crimped and knotted wire
- For light derusting operations



#### Steel wire, straight or knotted

- For extreme brushing requirements
- For brushing tools with less flexibility
- Ideal for cleaning weld seams and removing heavy deposits of scale or corrosion



#### Osborn special steel wire, crimped or knotted

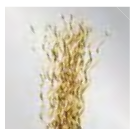
- Heavy duty steel wire with high tensile strength
- High elongation and long brush life
- For extreme brushing demands

➡ **PREMIUM** (see flap for details)



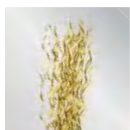
#### Stainless steel wire, crimped, straight or knotted

- Most commonly used alloys: 1.4310 and 1.4401 (1.4571 available on request)
- For use where residue from normal steel wire would contaminate surfaces.



#### Brass wire

- Surface finishing on non-ferrous materials (copper and brass)



#### Brass-coated steel wire, mono wire

- Single wires
- High tensile strength
- For demanding brushing and deburring operations



#### Novoflex-B

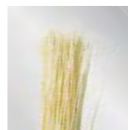
- Abrasive spheres on a flexible structure
- Self-centring
- Creation of surfaces with a high contact ratio (plateau finish)

➡ **PREMIUM** (see flap for details)



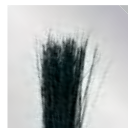
#### Brass-coated steel wire, cord wire

- Cord wire with high tensile strength
- For demanding brushing and deburring operations, as well as for structuring wood



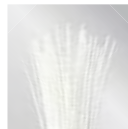
#### Tampico fibre

- Pure plant fibre
- For wet and dry cleaning operations
- Heat-resistant
- In combination with compound also suitable for polishing



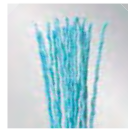
#### Horse hair

- Animal hair
- For light cleaning operations
- Suitable for sealing



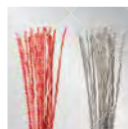
#### Synthetic filaments

- Highly flexible
- Resistant to weak acids and alkaline solutions
- Wear resistant



#### Abrasive filament, aluminium oxide

- Nylon filaments impregnated with abrasive grit
- Light deburring of steel and non-ferrous metals



#### Abrasive filament, silicon carbide

- Nylon filaments impregnated with silicon carbide
- Uniform performance as new abrasive particles come to the surface
- High elasticity with no danger of breakage
- Long brush life
- For deburring/descaling, roughening and grinding



#### Novofil

- High-performance, high-tech material
- Flat or round filaments
- Broad range of materials, different degrees of hardness
- For deburring and internal finishing

➡ **PREMIUM** (see flap for details)

### Brush trim and material suitability.

The trim material determines the suitability of the selected brush for the surface to be finished.

A quick overview of the suitability of your brush can be found in the trim and material charts in the info headings on the product pages.

TRIM AND MATERIAL		Steel	Cast iron	Stainless steel	Non-ferrous metal	Aluminium	Softwood	Hardwood
Product available with:								
steel wire, crimped	➡	■	■				■	■
steel wire, stainless	➡			■	■	■		
brass wire	➡				■		■	

Simple equation: the right trim for the material being finished.

# BRUSHES

## Introduction & technical information

### Easy identification of the best trim material.

The correct choice of trim material is very important in obtaining the best surface finish, because the desired result will only be achieved by correctly matching the trim to the surface material being finished. The illustration below clearly explains the relationships involved in each stage of the process.

E.g.: **Paint removal** from **blank, homogeneous aluminium surfaces** by selection of **crimped, stainless steel wire**

	Surface	Desired result	Recommended trim material and its features
<b>Rust/paint removal</b>	<ul style="list-style-type: none"> <li>Non-ferrous metals &amp; aluminium</li> <li>Stainless steels</li> </ul>	<ul style="list-style-type: none"> <li>Blank, homogeneous surface</li> <li>To remove severe contamination</li> <li>To remove dirt incrustations</li> </ul>	<ul style="list-style-type: none"> <li>Steel wire, crimped, stainless (flexible)</li> <li>Steel wire, knotted, stainless (aggressive)</li> <li>Steel wire, straight, stainless (aggressive)</li> </ul>
<b>Deburring, edge rounding</b>	<ul style="list-style-type: none"> <li>Non-ferrous metals &amp; steel</li> <li>Non-ferrous metals &amp; aluminium</li> <li>Stainless steels</li> </ul>	<ul style="list-style-type: none"> <li>Edge rounding, small radius</li> <li>Medium – aggressive deburring</li> <li>Medium – aggressive deburring</li> </ul>	<ul style="list-style-type: none"> <li>Abrasive filament brush (flexible)</li> <li>Steel wire, crimped, stainless (flexible)</li> <li>Steel wire, crimped (flexible)</li> </ul>
<b>Cleaning weld seams</b>	<ul style="list-style-type: none"> <li>Non-ferrous metals &amp; aluminium</li> <li>Stainless steels</li> <li>Aluminium surfaces</li> </ul>	<ul style="list-style-type: none"> <li>No material removal from welded seam</li> <li>No material removal from welded seam</li> <li>Removal of welding residues &amp; oxide coatings without material removal</li> </ul>	<ul style="list-style-type: none"> <li>Steel wire, knotted, stainless (aggressive)</li> <li>Steel wire, knotted (aggressive)</li> <li>Steel wire, crimped, stainless (flexible)</li> </ul>
<b>Roughening, smoothing</b>	<ul style="list-style-type: none"> <li>All materials</li> <li>All materials</li> <li>Stainless steels, INOX, aluminium</li> <li>Brass, bronze, copper</li> </ul>	<ul style="list-style-type: none"> <li>Light surface roughening</li> <li>Blending surfaces</li> <li>Blending surfaces</li> <li>Blending surfaces</li> </ul>	<ul style="list-style-type: none"> <li>Abrasive filament brush, coarse grit 40-120 (flexible)</li> <li>Abrasive filament brush, fine 120-320 (flexible)</li> <li>Steel wire, crimped, stainless, wires &lt; 0.30 mm (flexible)</li> <li>Brass wires (flexible)</li> </ul>
<b>Sweeping, dedusting</b>	<ul style="list-style-type: none"> <li>Wood</li> <li>All materials</li> <li>All materials</li> </ul>	<ul style="list-style-type: none"> <li>Dust removal</li> <li>Sealing, stripping</li> <li>Cleaning</li> </ul>	<ul style="list-style-type: none"> <li>Fibre (flexible)</li> <li>Horse hair (flexible)</li> <li>Nylon, wire, natural bristle (flexible)</li> </ul>
<b>Wood graining</b>	<ul style="list-style-type: none"> <li>Wood</li> <li>Wood</li> <li>Wood</li> </ul>	<ul style="list-style-type: none"> <li>Wood graining</li> <li>Removing raised wood fibres</li> <li>Blending/following contours</li> </ul>	<ul style="list-style-type: none"> <li>Steel wire with brass coating (hard)</li> <li>Abrasive filament brush (hard)</li> <li>Abrasive filament brush (fine)</li> </ul>

# TECHNICAL INFORMATION



## Safe and operating speeds

The workplace safety regulations require the maximum safe speed to be observed. Details can be found in the product overview in this catalogue, on the packaging and on the brush itself (see fig.). The **definition of operating speed is based on the peripheral speed and brush diameter**. The ideal operating speed is generally significantly lower than the safe speed.



## Operating and clamping width of the brush

The **operating width** describes the contact surface between brush and workpiece. Press the trim together slightly to measure the operating width. The **clamping width** is measured between the washers (see fig. left). **Contact us for more information on the clamping width.**



## Brush diameter and trim length

The relationship between the diameter of the brush (brush body) and the length of the trim determines how the brush operates. Generally speaking:

**Soft, flexible brushes**, e.g. for finishing structured workpieces or surface cleaning.



**More aggressive brushing**, e.g. for deburring or removing impurities.



## Ideal position of brush in relation to workpiece

The contract pressure of a brush is defined by factors such as its insertion depth in the workpiece. Our recommendation is 3 times the filament diameter, e.g. 1.0 mm insertion depth for a wire thickness of 0.35 mm. The ideal position also ensures less wear. Our application engineers will be glad to advise.



## Brush trim density

The trim density is determined by the number of wire tips per surface unit. High trim densities are best for cutting performance and service life (e.g. deburring). Lower trim densities increase brush flexibility and are required for finishing intricately shaped surfaces.

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**ANY QUESTIONS? We will be glad to help: [service@osborn.de](mailto:service@osborn.de)**

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# BRUSHES

## Introduction & technical information



### Important safety instructions

For **efficient and safe use**, always choose the maximum possible brush diameter that can be fitted to the grinder.

As mentioned in the section on operating speeds, the brush diameter defines the **peripheral speed**. It can also affect brush performance.

The table below provides a summary.

#### Installation instructions

Please read before fitting the brush.

- The speed of the drive shaft on your machine should not exceed the maximum safe speed of the brush.
- The length of the shaft should be sufficient to ensure a firm fit in the chuck.
- Brushes with a clamping shank can be installed without problems in standard drill chucks or collets.
- The connecting threads on the brushes have flats for simple installation and removal.

rpm	Brush diameter 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								

#### Safe peripheral speeds:

Guide values for safe peripheral speeds are, for example, 30-35 m/sec. for brushes with crimped wire, and 18-22 m/sec. for brushes with abrasive filaments and synthetic compound trim materials.

Brushes with knotted wire should be used in angle grinders at max. 85 m/sec., and stationary machines at max. 45 m/sec.



#### Important:

Hand tools should only be fitted with brushes up to a max. OD of 180 mm.



#### General safety instructions



Wear protective clothing to protect yourself from injury.



More safety instructions and examples of usage can also be found on the Internet.



For more information\*



[www.osborn-app.com](http://www.osborn-app.com)

\* Network charges apply for the use of mobile websites.





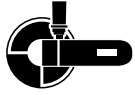
# BRUSHES

## Angle grinders



### Important user information

#### Brushes for angle grinders



To be noted when selecting brushes and using angle grinders:

#### 1. Typical brush types for angle grinders



##### Wheel brushes

Available with knotted and crimped wire.



##### Cup brushes

Available with knotted and crimped wire, as well as abrasive filaments.

##### Please note:

When deciding on a suitable diameter for a cup brush, do not forget that it will spread out during operation.

The key factor in determining the maximum possible brush diameter is therefore the size of the safety guard.



##### Bevel brushes

Available with knotted and crimped wire.

#### 2. Determining the operating speed

The maximum operating speed of a brush depends on its diameter. As in the case of a bicycle wheel, the larger it is the fewer turns are needed to cover a particular distance.

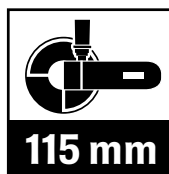
The most common speeds are colour-coded to clearly show the differences and for ease of identification:

	Diameter:	Ø 115 mm (4 1/2")	Ø 125 mm (5")	Ø 150 mm (6")	Ø 180 mm (7")	Ø 230 mm (9")
	Operating speed:	12,500 rpm	11,000 rpm	8,500 rpm	8,500 rpm	6,500 rpm

#### 3. Which brush for which angle grinder?

Brush type & trim	Ø Brush											
	60	65	75	80	90	100	115	120	125	150	178	230
Wheel brush, knotted						115	115		125	150	180	230
Wheel brush, crimped						115	115					
Cup brush, knotted		115	125	150		180		230				
Cup brush, crimped	115		125	150		150 / 180			230	230		
Cup, abrasive						150*						

\* adjustable



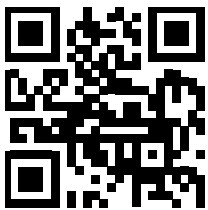
#### The machine information on the packaging

The machine icon on all Osborn packaging will also show the maximum permitted machine size.

# PRODUCT FINDER

## WELD SEAM CLEANING

Impurities or non-metallic inclusions can occur on the surface of the weld, depending on the welding procedure. Non-metallic inclusions do not adhere to the surface to the extent of the other materials in the weld. If a coating is later applied to the welded part, faults in the coating and corrosion can occur in the area of the inclusions.



The QR code will take you directly to the special page for welding with an easy to use online product finder.

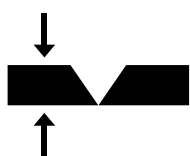
Osborn can provide the appropriate cleaning tool for any welding procedure and type of seam to be finished (root, filler or cover). Brushes are the ideal solution because they do not grind the material, unlike commonly used grinding wheels.

Our weld matrix will help you select the right product for your application.

The most common contamination occurring during welding (in order of technique):

	MMA	TIG/MIG/MAG	PLASMA
<b>Slag</b> Residues that occur as the electrodes wear.	<b>Spatter</b> Grinding wheels remove this residue.	<b>Silicates</b> Silicates occur when silicon – present in most steel alloys – burns during the welding process and change to SiO <sub>2</sub> .	<b>Blue Colour</b> Oxide deposits that form mainly when welding stainless steel.

	MMA	TIG/MIG/MAG	PLASMA
<b>Root/ Hot pass</b>	~ 0.50/0.80 mm 4 - 6 mm Plastic-bonded, knotted wire	4 mm Grinding wheel	~ 0.30 - 0.50 mm 4 mm Plastic-bonded, crimped wire
<b>Fill layer</b>	~ 0.50/0.80 mm 6 - 13 mm Knotted wire	6 mm Grinding wheel	~ 0.15 - 0.35 mm 4-6 mm Steel/stainless steel
<b>Cap layer</b>	~ 0.50/0.80 mm 13 mm Knotted wire	Grit 40 - 60 Flap grinding wheel	~ 0.30 - 0.50 mm 6 - 13 mm Knotted wire
<b>Surface</b>	~ 0.50/0.80 mm 13 mm Knotted wire	Grit 40 - 60 Flap grinding wheel	~ 0.15 - 0.35 mm 6 - 13 mm Steel/stainless steel



Wall thickness	Round brush Ø
10 mm	-
15 mm	100/115 mm
20 mm	115/125 mm
25 mm	150 mm
30 mm	180 mm
35 mm	180 mm
	230 mm



You can download a PDF containing a detailed matrix or use the online product finder. Just scan the QR code at the top or enter <http://weldcleaning.osborn.com>.

# BRUSHES

## Angle grinders



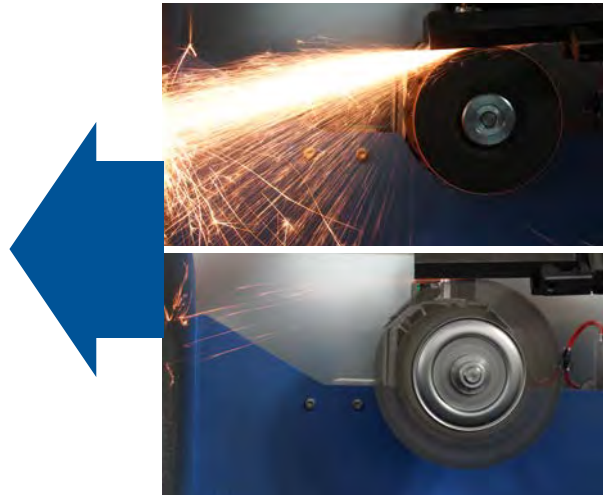
### Important information

#### Material care

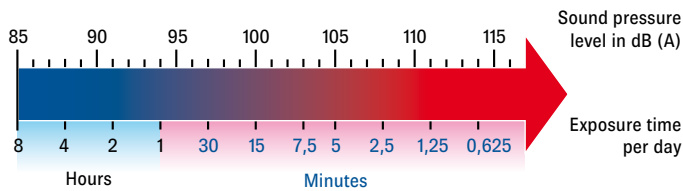
Wire brushes are not cutting tools. They remove residues such as slag, silicates and bluing but leave the original surface structure untouched. That saves time and money!

#### Flying sparks

Flying sparks are a safety risk in confined spaces such as pipeline installation sites, especially if several people are working together. Brushes generate 95% less sparks than grinding wheels.



#### Noise level

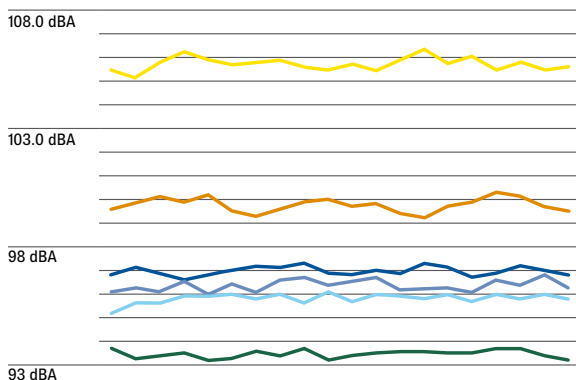


Sound pressure level and daily exposure times for maintaining a daily noise exposure level (Lex), 8 h of 85 dB(A) - upper value

#### Noise

Studies have shown that the noise level in the metal-working industry is one of the highest compared with other sectors. EU directives specify an average noise level of 85 dB (A) per day. Noise is one of the best known causes of illness.

#### Noise comparison



- Cup brush, 60 mm, M14 steel wire, crimped 0.30
- Disc centre 115 x 12 knotted steel wire 0.50
- Disc centre 115 x 6 knotted steel wire 0.50
- Grinding wheels 125 x 6 x 22, 23
- Abrasive mop wheel 125 x 22, 23 K 80
- Metabo WE14-125 grinder without tool



This diagram shows that wire brushes are an average 6-8 dB (A) quieter than grinding tools. This is a significant reduction and a contribution to occupational safety because a variation of just +/- 3 dB (A) is the equivalent of doubling/halving the noise level.



# Brushes

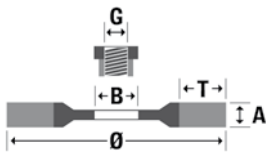
## Angle grinder

### Wheel brushes

#### knotted wire



Wheel brushes for easy installation on angle grinders; for deburring and cleaning weld seams.



#### USAGE

115-230

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot

Stainless steel

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm								0,35	RRP	0,50	RRP	0,80	RRP
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	15	13			20000	12	<b>0002-611 131</b>	10,55	<b>0002-611 151</b>	10,15		
100	12	20	22,2		F	12500	8	<b>0002-621 131</b>	15,80	<b>0002-621 151</b>	15,45		
115	12	23	22,2		F	12500	10	<b>0002-631 131</b>	18,15	<b>0002-631 151</b>	17,70		
115	12	23		M14x2,0		12500	6	<b>0402-631 131</b>	20,45	<b>0402-631 151</b>	19,95		
115	6	19	22,2			12500	10	<b>9502-626 301</b>	23,50	<b>9502-626 501</b>	22,85		
125	13	28	22,2		F	12500	8	<b>6152-631 131</b>	20,45	<b>2202-631 151</b>	19,95		
125	13	28		M14x2,0		12500	8	<b>1402-631 131</b>	22,70	<b>1402-631 151</b>	21,95		
125	6	24	22,2			12500	8	9502-626 311	25,35	<b>9502-626 251</b>	24,40		
150	13	37	22,2		F	12000	5	<b>0002-641 131</b>	23,95	<b>0002-641 151</b>	21,65	<b>0002-641 181</b>	20,30
178	13	42	22,2		F	10000	6	<b>0002-653 131</b>	27,80	<b>0002-653 151</b>	27,45	<b>0002-653 181</b>	26,30
230	6	57	22,2			6500	1			4306-026 904	44,55		
230	13	58	22,2			8500	1			9502-664 151	35,50		
178	6	38	22,2			12000	12	<b>4602-626 131</b>	35,00				

**NEW!**

mm								0,35	RRP	0,50	RRP	1.4401 0,50	RRP
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	12	20	22,2		F	12500	4			<b>0002-621 351</b>	33,10		
115	12	23	22,2		F	12500	4	<b>0002-631 331</b>	41,25	<b>0002-631 351</b>	37,70		
115	12	23	22,2			12500	4					4902-631 351	* 45,20
115	12	23		M14x2,0		12500	4	0402-631 331	43,85	<b>0402-631 351</b>	40,15		
125	6		22,2			12000	3	<b>4602-626 331</b>	34,50	<b>9502-626 651</b>	37,45		
125	6	24	22,2			12000	3					4902-626 651	* 44,90
125	13	28	22,2		F	12500	3	<b>2202-631 331</b>	43,20	<b>2202-631 351</b>	39,75		
125	13	28	22,2			12500	3					4912-631 351	* 47,70
125	13	28		M14x2,0		12500	3	1402-631 331	43,90	<b>1402-631 351</b>	40,85		
150	13	37	22,2		F	12000	3			<b>0002-641 351</b>	63,40		
178	13	42	22,2		F	12000	3			<b>0002-653 351</b>	89,90		
178	13	42	22,2			10000	3					4902-653 351	* 99,50
178	6	38	22,2			12000	12	<b>4612-626 331</b>	49,50				

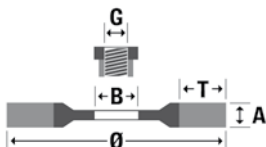
\* TÜV-Certification planned.

### Wheel brushes

#### knotted Osborn wire



Wheel brushes for easy installation on angle grinders; for deburring and cleaning weld seams. Special knotting and hardened wire for industrial applications and long service life.



#### USAGE

115-180

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot

Stainless steel

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm								Osborn 0,35	RRP	Osborn 0,50	RRP		
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	13	17	1/2"		F	20000	12	<b>9906-026 011</b>	23,35	9906-026 012	22,45		
100	13	22	5/8"		F	18000	12	9906-026 116	19,50	<b>9906-026 117</b>	18,70		
100	13	22	7/8"		F	18000	12	9906-026 280	19,75	9906-026 281	18,70		
100	6	20		M14x2,0		18000	12			9906-026 365	22,30		
115	6	19	7/8"			12500	12			<b>2906-026 501</b>	21,65		
115	6	19		M14x2,0		12500	12	0002-626 305	24,75	0002-626 505	23,55		
125	6	24	7/8"			12500	12	0002-626 311	25,35	<b>0002-626 251</b>	23,90		

mm								Osborn 0,50	RRP				
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	6	19	7/8"			12500	12	<b>0002-626 650</b>	34,35				
125	6	24	7/8"			12500	12	<b>0002-626 651</b>	37,45				

Continue next page.

# Brushes

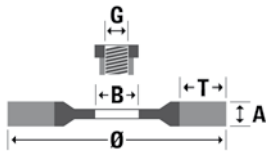
## Angle grinder

**Wheel brushes**  
**knotted Osborn wire**



**PREMIUM**

Wheel brushes for easy installation on angle grinders; for deburring and cleaning weld seams. Special knotting and hardened wire for industrial applications and long service life.



**USAGE**

**115-180**

roughening	<input type="checkbox"/>	0,26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	0,35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	0,50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	0,60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	0,80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

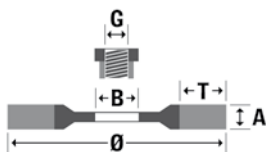
mm						Osborn 0,35		Osborn 0,50		Osborn 0,63	
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	RRP	Order-No.	RRP
150	6	38	7/8"		F	12000	12			9906-026 501	25,20
150	25	38	7/8"		F	12000	12	9906-026 247	24,80		
150	6	38		M14x2,0		12000	10			9906-026 500	27,05
150	13	38	7/8"			12000	12	9906-026 248	41,35	9906-026 249	22,75
165	6	29	7/8"				12			0002-626 061	26,50
165	13	32	7/8"		F	12000	12				
171	6	29	7/8"		F	12000	12			9706-026 904	36,90
178	6	38	22,2		F	12000	12			9906-026 051	32,00
178	6	38		M14x2,0		12000	10			9906-026 053	33,60

**Wheel brushes**  
**knotted wire**



**TUV**

Brushes with special clockwise/anti-clockwise knotting for smooth, vibration-free use.



**USAGE**

**115-150**

roughening	<input type="checkbox"/>	0,26	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	0,35	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	0,50	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	0,60	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	0,80	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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mm						0,35		0,50		RRP	
Ø	A	T	B	min-1	pcs.	Order-No.	RRP	Order-No.	RRP	Order-No.	RRP
115	12	23	22,2	12500	10	1202-631 131	17,50	1202-631 151	17,05		
125	13	28	22,2	12500	8	1212-631 131	19,75	1212-631 151	19,20		
178	13	42	22,2	12500	6	1202-653 131	26,75	1202-653 151	26,35		

# Brushes

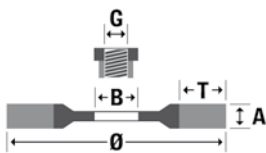
## Angle grinder

**Wheel brushes**  
**knotted Osborn wire plasticbonded**



**PREMIUM**

Non-deforming brushes to remove slag and silicates. Suitable for root and filler welds. Recommended for MMA/manually welded joints with heavier deposits.



**USAGE**



**125-180**

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot →

Steel	<input checked="" type="checkbox"/>	Cast steel	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>	Non-ferrous metal	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Soft wood	<input type="checkbox"/>	Hard wood	<input type="checkbox"/>
-------	-------------------------------------	------------	--------------------------	-----------------	--------------------------	-------------------	--------------------------	-----------	--------------------------	-----------	--------------------------	-----------	--------------------------

mm							max	Osborn 0,50	RRP	Osborn 0,50 *	RRP		
Ø	A	T	B	min-1	pcs.		Order-No.	€	Order-No.	€	Order-No.	€	
125	6	24	22,2	12000	1		<b>9802-921 873</b>	43,55	9812-921 873	47,10			
178	6	38	22,2	8500	1		<b>9802-921 875</b>	58,75	9812-921 875	61,40			

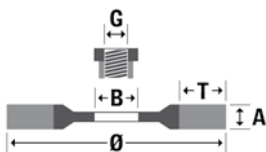
\* pointed model. Other articles regular.

**Wheel brushes**  
**crimped wire plasticbonded**



**PREMIUM**

Non-deforming brushes to remove silicate and welding residues. Recommended for joints welded using TIG/MIG/MAG.



**USAGE**



**150-180**

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →

Steel	<input checked="" type="checkbox"/>	Cast steel	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>	Non-ferrous metal	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Soft wood	<input type="checkbox"/>	Hard wood	<input type="checkbox"/>
-------	-------------------------------------	------------	--------------------------	-----------------	--------------------------	-------------------	--------------------------	-----------	--------------------------	-----------	--------------------------	-----------	--------------------------

mm							max	0,38	RRP			
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
125	5	32,5		M14x2,0	12000	1	<b>4102-921 051</b>	42,50				
150	5	29	22,2		8500	12	<b>0002-921 874</b>	55,90				
178	5	41	22,2	M14x2,0	8500	10	0002-921 876	57,95				
178	5	41	22,2		8500	12	<b>0002-921 875</b>	57,30				
178	5	41	22,2	5/8"	8500	10	0002-921 889	59,00				
178	3	41	22,2		8000	1	7702-921 875	54,85				

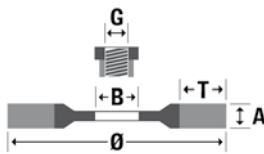
**NEW!**

# Brushes

## Angle grinder



Suitable for an antique finish on wood.



**115**

**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

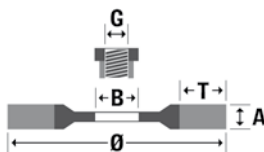
Steel wire crimped →

Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm						0,27 Cordwire	RRP				
Ø	A	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	12	28	M14x2,0	12500	6	2812-522 051	12,80				



Brushes for structuring wood.  
Recommended for angle polishers and angle grinders with adjustable-speed.



**150-180**

**USAGE**

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**BESATZ UND MATERIAL**

Produkt erhältlich mit:

Schleifborste →

Stahl	Gussstahl	Edelstahl	NE-Metall	Aluminium	Weichholz	Hartholz
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm						Novofil 46	RRP	Novofil 60	RRP	Novofil 80	RRP
Ø	A	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
140	55	30	M14	4500	6	5421-401 913	29,25	5411-401 913	29,25	5401-401 913	29,25



# Brushes

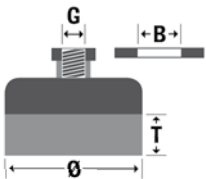
## Angle grinder

### Cup brushes

#### knotted wire



High performance cup brushes for surface finishing. High cleaning action from knotted wire.



**NEW!**



### USAGE

115

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire twist knot →

Stainless steel →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm						0,35	RRP	0,50	RRP		
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
65	20	16		12500	10	1602-608 131	12,80	1602-608 151	11,80		
65	20		M10x1,25	12500	10	2352-608 131	12,80	2352-608 151	11,80		
65	20		M10x1,5	12500	10	<b>0102-608 131</b>	12,80	<b>0102-608 151</b>	11,80		
65	20		M14x2,0	12500	10	<b>0002-608 131</b>	12,80	<b>0002-608 151</b>	11,80		
65	30		M14x2,0	12500	10	<b>3892-608 131</b> **	15,40				

\*\* extra long trim

mm						0,35	RRP	0,50	RRP	0,50 1.4401	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
65	20	16		12500	6	1602-608 331	26,10				
65	20		M10x1,25	12500	6	2352-608 331	26,55	2352-608 351	25,75		
65	20		M10x1,5	12500	6	<b>0102-608 331</b>	26,55	<b>0102-608 351</b>	25,75		
65	20		M14x2,0	12500	6	<b>0002-608 331</b>	26,55	<b>0002-608 351</b>	25,75	<b>0442-608 351</b> *	26,35

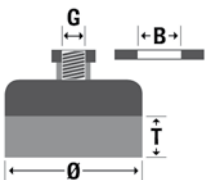
\* TÜV-Certification planned.

### Cup brushes

#### knotted wire



High performance cup brushes for surface finishing. High cleaning action from knotted wire. Trim is prevented from splaying by removable support rings. Once the trim is worn, support rings can be removed, so that brush can be fully used.



### USAGE

125

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire twist knot →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm						0,35	RRP	0,50	RRP		
Ø	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
75	20	M14x2,0	11000	10	<b>9908-608 132</b>	24,05	<b>9908-608 152</b>	23,55			
75	20	5/8 Zoll	11000	10	9918-608 132	24,05	9918-608 152	23,55			



# Brushes

## Angle grinder

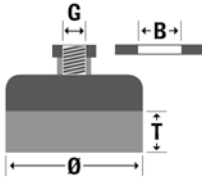
### Cup brushes

#### knotted wire



**PREMIUM**

Cup brushes with special knotting and hardened wire for long service life. Recommended for cleaning cover welds and surfaces in the oil and gas industry.



**NEW!**



**115-150**

#### USAGE

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot

Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm						Osborn 0,50	RRP	Osborn 0,80	RRP		
Ø	A	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
90	32	65	M14x2,0	7500	6	<b>9906-033 125</b>	28,45				
90	32	65	5/8"	7500	6	<b>9906-033 126</b>	28,45				
150	45	70	M14x2,0	6000	1	9906-033 016	65,50	9906-033 022	62,50		
150	45	70	5/8"	6000	1			9906-033 021	62,50		
150	45	75	M14x2,0	6000	1	<b>9906-033 031</b> *	76,15				
150	45	75	5/8"	6000	1	<b>9906-033 030</b> *	76,15				

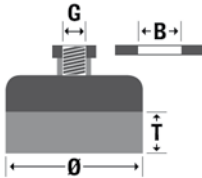
\* two-rowed

### Cup brushes

#### knotted wire



High performance cup brushes for surface finishing. High cleaning action from knotted wire.



**NEW!**



**150-230**

#### USAGE

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot

Stainless steel

Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm						0,35	RRP	0,50	RRP	0,80	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80	20		5/8 Zoll	8500	6	0802-608 133	30,20	<b>0802-608 153</b>	27,75	0802-608 183	27,10
80	20		M14x2,0	8500	6	<b>0002-608 133</b>	30,20	<b>0002-608 153</b>	27,75	<b>0002-608 183</b>	27,10
100	20		M14x2,0	8500	3	<b>0002-608 134</b>	35,10	<b>0002-608 154</b>	32,90	<b>0002-608 184</b>	31,95
100	20		5/8 Zoll	8500	3	0802-608 134	35,10	<b>0802-608 154</b>	32,90	0802-608 184	31,95
120	20		M14x2,0	6500	4	<b>0002-608 135</b>	41,70	<b>0002-608 155</b>	40,45	<b>0002-608 185</b>	39,55
120	20		5/8 Zoll	6500	4	0802-608 135	41,70	0802-608 155	40,45	0802-608 185	39,55

mm						0,35	RRP	0,50	RRP	0,50 1.4401	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80			M14x2,0	8500	3	<b>0002-608 333</b>	64,45	<b>0002-608 353</b>	59,45	<b>0442-608 353</b> *	59,65
100			M14x2,0	8500	3	<b>0002-608 334</b>	67,45	<b>0002-608 354</b>	65,40	<b>0442-608 354</b> *	65,71

\* TÜV-Certification planned.

# Brushes

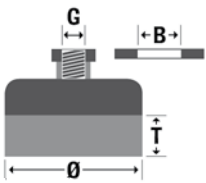
## Angle grinder

### Cup brushes

crimped wire



Non-destructive. Soft cleaning brushes for surface finishing.



**NEW!**



### USAGE

115-125

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm						0,20	RRP	0,30	RRP	0,30	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
60	21	16		12500	10			1602-613 161	9,75		
60	21	16		12500	4					1602-613 361	14,65
60	21		M10x1,25	12500	10	5262-613 141	10,65				
60	21		M10x1,5	12500	10	0102-613 141	10,65	<b>0102-613 161</b>	9,75		
60	21		M14x2,0	12500	10	<b>0002-613 141</b>	10,65	<b>0002-613 161</b>	9,75		
60	21		M14x2,0	12500	4					<b>0002-613 361</b>	14,65
75	23	16		12500	10	1602-613 142	16,55	1602-613 162	15,60		
75	23	16		12500	3					1602-613 362	27,05
75	23		M10x1,25	12500	10	5652-613 142	16,55	5652-613 162	15,60		
75	23		M10x1,5	12500	10	0102-613 142	16,55	<b>0102-613 162</b>	15,60		
75	23		M14x2,0	12500	10	<b>0002-613 142</b>	16,55	<b>0002-613 162</b>	15,60		
75	23		M14x2,0	12500	4					<b>0002-613 362</b>	27,05
75	23		5,8 Zoll	12500	10	0802-613 142	16,55	0802-613 162	15,60		
75	23		5,8 Zoll	12500	4					0802-613 362	27,05

mm						0,30	UVP	0,30	UVP
Ø	T	B	G	min-1	à	Order-No.	€	Order-No.	€
60	21		M10x1,25	12500	10			<b>4912-613 561</b> *	12,50
60	21		M14x2,0	12500	4	<b>0442-613 361</b> *	15,84		
60	21		M14x2,0	12500	10			<b>4902-613 561</b> *	12,50
75	25		M14x2,0	12500	4	<b>0442-613 362</b> *	27,90		
75	25		M14x2,0	12500	10			<b>4902-613 562</b> *	22,50

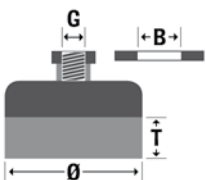
\* TÜV-Certification planned.

### Cup brushes

crimped wire



Non-destructive. Soft cleaning brushes for surface finishing.



**NEW!**



### USAGE

150-230

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm						0,20	RRP	0,30	RRP	0,50	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80	30		M14x2,0	8500	5	<b>0002-613 143</b>	18,75	<b>0002-613 163</b>	18,30		
80	25		5/8 Zoll	8500	5	0802-613 143	18,75	0802-613 163	18,30		
80	25		M14x2,0	8500	5					<b>0002-613 193</b>	17,25
100	30		M14x2,0	8500	3	<b>0002-613 144</b>	23,85			<b>0002-613 194</b>	22,10
100	30		M14x2,0	8500	4			<b>0002-613 164</b>	22,50		
100	30		5/8 Zoll	8500	3	0802-613 144	23,85	0802-613 164	22,50	0802-613 194	22,10
125	30		M14x2,0	6500	4	<b>0002-613 145</b>	32,95	<b>0002-613 165</b>	31,45	<b>0002-613 195</b>	29,85
125	30		5/8 Zoll	6500	4			0802-613 165	31,45	0802-613 195	29,85
150	40		M14x2,0	6500	3	<b>0002-613 146</b>	37,70	<b>0002-613 166</b>	34,35	<b>0002-613 196</b>	33,85
150	40		5/8 Zoll	6500	3	0802-613 146	35,00	0802-613 166	34,35	0802-613 196	33,85

mm						0,30	UVP	0,30	UVP	0,30	UVP
Ø	T	B	G	min-1	à	Order-No.	€	Order-No.	€	Order-No.	€
80	25		M14x2,0	8500	4	<b>0002-613 363</b>	31,85	<b>0442-613 363</b> *	29,50		
80	25		M14x2,0	8500	5					<b>4902-613 563</b> *	25,70
80	25		5/8 Zoll	8500	4	0802-613 363	31,85				
100	25		M14x2,0	8500	3	<b>0002-613 364</b>	46,15	<b>0442-613 364</b> *	46,50		
100	30		M14x2,0	8500	4					<b>4912-613 564</b> *	35,50
100	30		5/8 Zoll	8500	3	0802-613 364	46,15				
125	30		5/8 Zoll	6500	2	0802-613 365	54,15				
125	30		M14x2,0	6500	2	<b>0002-613 365</b>	58,10	<b>0442-613 365</b> *	59,50		

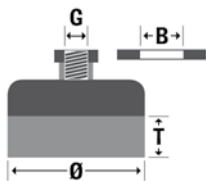
\* TÜV-Certification planned.

# Brushes

## Angle grinder



Non-destructive. Soft cleaning brushes for surface finishing. Special long-life wire for very long service life and reduced wire breakage.



**115-230**

**USAGE**

roughening	<input type="checkbox"/>	0,26
deburring	<input checked="" type="checkbox"/>	0,35
edge honing	<input checked="" type="checkbox"/>	0,50
descaling/paint stripping	<input checked="" type="checkbox"/>	0,60
slag residue	<input checked="" type="checkbox"/>	0,80
silicates residue	<input type="checkbox"/>	
blue color residue	<input type="checkbox"/>	

**TRIM AND MATERIAL**

Products available with:

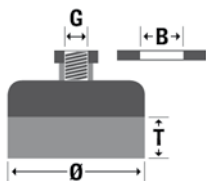
Steel wire crimped →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm					Longlife 0,30	RRP				
Ø	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
60	20	M14x2,0	12500	10	<b>3902-613 161</b>	10,25				
75	25	M14x2,0	12500	10	<b>3912-613 163</b>	15,55				
80	25	M14x2,0	12500	5	<b>3902-613 163</b>	18,90				
100	22	M14x2,0	8500	4	<b>3902-613 164</b>	23,10				
125	25	M14x2,0	6500	4	<b>3902-613 165</b>	32,25				



Recommended speed 4.000RPM.-1.

Aggressive structuring of wood. Deburring and cleaning of metal.



**150**

**USAGE**

roughening	<input type="checkbox"/>	0,26
deburring	<input checked="" type="checkbox"/>	0,35
edge honing	<input checked="" type="checkbox"/>	0,50
descaling/paint stripping	<input checked="" type="checkbox"/>	0,60
slag residue	<input checked="" type="checkbox"/>	0,80
silicates residue	<input type="checkbox"/>	
blue color residue	<input type="checkbox"/>	

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm					Novofil 80	RRP	Novofil 120	RRP	Novofil 180	RRP
Ø	T	B	G	min-1	Order-No.	€	Order-No.	€	Order-No.	€
100	25	22,2	M14x2,0	8500	<b>8812-607 914</b>	51,15	<b>2312-607 914</b>	51,15	<b>1802-607 914</b>	52,45
100	25		M14x2,0	8500	<b>6402-608 914</b>	52,50	<b>6412-608 914</b>	52,50	<b>1802-608 914</b>	53,85

**NEW!**

# Brushes

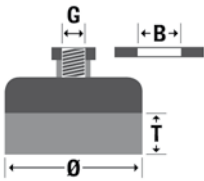
## Angle grinder

### Cup brushes

#### abrasive filament



Particularly suitable for finishing or de-burring.



#### USAGE

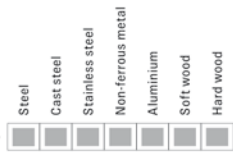
150-180

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Abrasive bristle →



mm							Novofil 46	RRP	46	RRP	60	RRP
Ø	A	T	G	min-1	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
130	70	50	M14x2,0	2500	4		<b>9301-614 916</b>	34,45	<b>9311-614 916</b>	34,45	<b>9321-614 916</b>	34,45

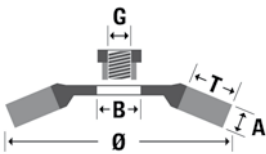
mm							Novofil 80	RRP
Ø	A	T	G	min-1	pcs.		Order-No.	€
130	70	50	M14x2,0	2500	4		<b>9331-614 916</b>	34,45

### Bevel brushes

#### knotted wire



Particularly suitable for processing inaccessible areas e.g. angles, edges or corners.



#### USAGE

115-125

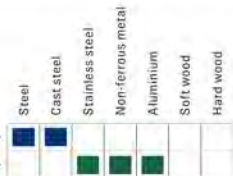
	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot →

Stainless steel →



mm							0,35 18 Knots	RRP	0,50 18 Knots	RRP
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€
100	13	22	16		12500	10			1602-622 151	15,20
100	13	22		M10x1,25	12500	10	4802-622 131 *	15,50	2352-622 151	15,20
100	13	22		M10x1,5	12500	10	0102-622 131	15,70	0102-622 151	15,20
100	13	22		M14x2,0	12500	10	<b>0002-622 131</b>	15,70	<b>0002-622 151</b>	15,20
115	15	20	16		12500	10			1602-632 151	21,80
115	15	20		M14x2,0	12500	10	<b>0002-632 131</b>	22,50	<b>0002-632 151</b>	21,80
115	15	20		5/8 Zoll	12500	10	0802-632 131	22,50	0802-632 151	21,80
125	15	23		M14x2,0	12500	10	<b>3602-632 131</b>	25,80	<b>2902-632 151</b>	23,95
125	5	23		M14x2,0	12500	10			<b>4302-632 151 *</b>	21,50

\* TÜV-Certification planned.

mm							0,35 22 Knots	RRP	0,50 22 Knots	RRP
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€
100	13	22		M14x2,0	12500	10	<b>0002-623 131</b>	18,60	<b>0002-623 151</b>	18,00

mm							0,35 18 Knots	RRP	0,50 18 Knots	RRP	0,50 1.4401	RRP
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	13	22		M10x1,25	12500	5	4802-622 331	22,75	2352-622 351	22,25		
100	13	22		M10x1,5	12500	5	0102-622 331	22,80	0102-622 351	22,25		
100	13	22		M14x2,0	12500	5	<b>0002-622 331</b>	22,80	<b>0002-622 351</b>	22,25	<b>0442-622 351 *</b>	22,55
115	15	20		M14x2,0	12500	5	<b>0002-632 331</b>	39,25	<b>0002-632 351</b>	38,50	<b>0442-632 351 *</b>	38,29
115	15	20		5/8 Zoll	12500	5	0802-632 331	39,25	0802-632 351	38,50		
125	15	23		M14x2,0	12500	10	3602-632 331	40,50	3602-632 351	39,45		

\* TÜV-Certification planned.

mm							0,35 22 Knots	RRP	0,50 22 Knots	RRP
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€
100	13	22		M14x2,0	12500	5	0002-623 331	26,15	0002-623 351	25,60

**NEW!**



# Brushes

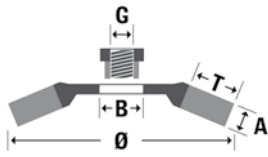
## Angle grinder

### Bevel brushes

crimped wire



Particularly suitable for processing inaccessible areas e.g. angles, edges or corners.



**NEW!**



### USAGE

115

roughening	<input type="checkbox"/>	0,26
deburring	<input type="checkbox"/>	0,35
edge honing	<input type="checkbox"/>	0,50
descaling/paint stripping	<input type="checkbox"/>	0,60
slag residue	<input type="checkbox"/>	0,80
silicates residue	<input type="checkbox"/>	
blue color residue	<input type="checkbox"/>	

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	Steel	<input checked="" type="checkbox"/>	Cast-steel	<input checked="" type="checkbox"/>	Stainless steel	<input checked="" type="checkbox"/>	Non-ferrous metal	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Soft wood	<input type="checkbox"/>	Hard wood	<input type="checkbox"/>
Stainless steel	<input checked="" type="checkbox"/>														

mm							0,20	RRP	0,30	RRP	0,30 brass-coated	RRP
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	20	20		M10x1,25	12500	10			2352-512 162	15,60		
100	20	10		M10	12500	10			2352-512 161	11,80		
100	20	20		M10x1,5	12500	10			0102-512 162	15,60	0002-512 062	15,90
100	20	20		M14x2,0	12500	10			0102-512 161	11,80		
100	10	20		M10x1,5	12500	10			0002-512 162	15,60	0002-512 061	12,10
100	10	20		M14x2,0	12500	10			0002-512 161	11,80		
115	10	29		M14x2,0	12500	5	0002-513 141	13,85	0002-513 161	12,55		
125	10	25		M14x2,0	12500	10	0002-514 141	15,55	0002-514 161	13,85		

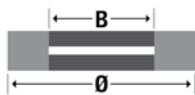
mm							0,20	RRP	0,30	RRP	0,30 1.4401	RRP
Ø	A	T	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
100	20	20	M10x1,25	12500	5	2352-512 342	37,65	2352-512 362	32,10			
100	20	20	M10x1,5	12500	5	0102-512 342	35,65	0102-512 362	32,10			
100	20	20	M14x2,0	12500	5	0002-512 342	37,65	0002-512 362	32,10			
100	10	20	M14x2,0	12500	5			0002-512 361	25,15			
115	10	29	M14x2,0	12500	5	0002-513 341	27,50	0002-513 361	25,80	0442-513 361*		
125	10	25	M14x2,0	12500	5	0002-514 341	29,30	0002-514 361	28,15	0442-514 361*		

\* TÜV-Certification planned.

### F-adapter



For reduction of arbor holes.



inch			RRP
Outer Ø	Inner Ø	pcs.	Order-No. €
5/8"	3/8"	1	0003-000 222 0,90
5/8"	1/2"	1	0003-000 223 0,90
7/8"	3/8"	1	0003-000 242 0,90
1/2"	7/8"	1	0003-000 243 0,90
5/8"	7/8"	1	0003-000 244 1,55



**BRUSHES FOR POWER DRILLS**



# BRUSHES

## Power drills



### Important user information

#### Brushes for power drills



To be noted when selecting brushes and using power drills:

#### 1. General user information

The brushes on the following pages are suitable for all brands of power drills. It does not matter whether you are using a 1- or 2-speed machine or a percussion drill.

The recommended speed is approx. 1,500 - 3,500 rpm

#### 2. Typical brush types for power drills



##### Wheel brushes

Available with knotted and crimped wire, as well as abrasive filaments or synthetic compound wires.



##### Cup brushes

Available with knotted and crimped wire, as well as abrasive filaments and synthetic compound wires.



##### End brushes

Available with crimped wire, abrasive filaments and synthetic compound wires.

##### Please note:

Cup and end brushes spread during operation.



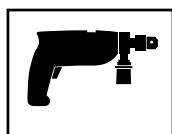
##### Flap wheel brushes

Available with crimped wire, abrasive filaments or Tampico fibre.



##### Tube & internal brushes

All details can be found in the chapter on internal finishing.



#### The machine information on the packaging and displays

Details on machine suitability can also be found on the machine icons on Osborn packaging and counter and shelf displays.

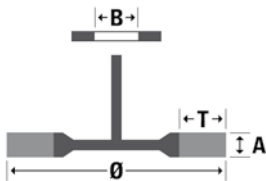
# Brushes Power drills



## Wheel brushes

### knotted wire

For heavy-duty cleaning and deburring applications such as slag and silicate removal, weld seam finishing or removal of the underfloor protection in motor vehicles.



**USAGE**

	0,25	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

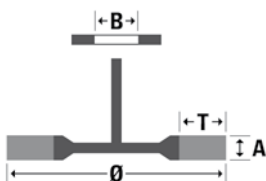
mm						0,35	RRP	0,50	RRP	0,50	RRP
Ø	A	T	S	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	18	6	20000	12	<b>0202-611 131</b>	11,05	<b>0202-611 151</b>	10,90	<b>0202-611 351</b>	20,90



## Wheel brushes

### crimped wire

Recommended working speed approx. 50% of maximum RPM. For non-destructive and light cleaning work, deburring and processing bores.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

mm						0,15	RRP	0,20	RRP	0,30	RRP
Ø	A	T	min-1	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
20	6	4	20000	10		<b>0002-501 132</b>	8,40	<b>0002-501 142</b>	8,05		
20	9	4	20000	10				<b>0002-501 143</b>	11,05		
30	6	6	20000	10				<b>0002-502 141</b>	5,45		
30	9	6	20000	10		<b>0002-502 132</b>	8,05	<b>0002-502 142</b>	6,70		
30	12	6	20000	10				<b>0002-502 143</b>	9,55		
40	7	10	18000	10				<b>0002-503 141</b>	5,20		
40	11	10	18000	10		<b>0002-503 132</b>	8,45	<b>0002-503 142</b>	7,50		
40	16	10	18000	10				<b>0002-503 143</b>	9,85		
50	10	13	15000	10				<b>0002-504 141</b>	5,55	<b>0002-504 161</b>	5,05
50	17	13	15000	10		<b>0002-504 132</b>	8,85	<b>0002-504 142</b>	7,70	<b>0002-504 162</b>	7,00
50	23	13	15000	10				<b>0002-504 143</b>	10,25	<b>0002-504 163</b>	9,95
60	12	15	15000	10				<b>0002-505 141</b>	5,70	<b>0002-505 161</b>	5,35
60	18	15	15000	10		<b>0002-505 132</b>	10,00	<b>0002-505 142</b>	8,40	<b>0002-505 162</b>	7,70
60	23	15	15000	10				<b>0002-505 143</b>	12,30	<b>0002-505 163</b>	10,95
70	11	15	15000	10				<b>0002-506 141</b>	5,85	<b>0002-506 161</b>	5,75
70	18	15	15000	10		<b>0002-506 132</b>	11,55	<b>0002-506 142</b>	9,20	<b>0002-506 162</b>	7,95
70	23	15	15000	10				<b>0002-506 143</b>	12,50	<b>0002-506 163</b>	11,20
80	19	20	15000	10				<b>0002-507 142</b>	9,55	<b>0002-507 162</b>	9,25

Continue next page.

# Brushes

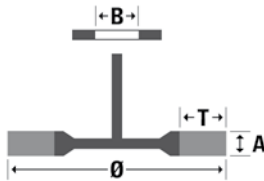
## Power drills

### Wheel brushes

#### crimped wire



Recommended working speed approx. 50% of maximum RPM. For non-destructive and light cleaning work, deburring and processing bores.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

	Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		min-1	pcs.	0,15	RRP	0,20	RRP	0,30	RRP
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	6	4	20000	0002-501 332	16,30	0002-501 342	14,95		
20	9	4	20000	0002-501 333	18,60	0002-501 343	17,60		
30	6	6	20000			0002-502 341	6,95		
30	9	6	20000	0002-502 332	9,50	0002-502 342	8,90		
30	12	6	20000	0002-502 333	14,55	0002-502 343	14,25		
40	7	10	18000	0002-503 331	8,90	0002-503 341	8,60		
40	11	10	18000	0002-503 332	13,95	0002-503 342	12,85		
40	16	10	18000	0002-503 333	18,45	0002-503 343	18,10		
50	10	13	15000			0002-504 341	7,50	0002-504 361	6,90
50	17	13	15000	0002-504 332	15,60	0002-504 342	14,55	0002-504 362	14,25
50	23	13	15000			0002-504 343	19,40	0002-504 363	18,60
60	12	15	15000			0002-505 341	8,45	0002-505 361	7,20
60	18	15	15000	0002-505 332	16,80	0002-505 342	16,10	0002-505 362	15,60
60	23	15	15000			0002-505 343	19,05	0002-505 363	19,40
70	11	15	15000			0002-506 341	8,60	0002-506 361	8,35
70	18	15	15000	0002-506 332	18,55	0002-506 342	16,55	0002-506 362	15,85
70	23	15	15000			0002-506 343	19,75	0002-506 363	20,65
80	10	20	12000					5162-507 361	11,35
80	19	20	12000			0002-507 342	16,60	0002-507 362	17,70

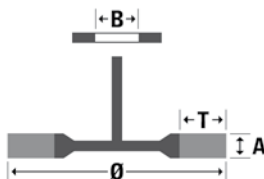
mm		min-1	pcs.	0,20	RRP				
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	9	4	20000	0002-501 542	14,85				
30	9	6	20000	0002-502 542	8,00				
40	11	10	18000	0002-503 542	9,65				
50	17	13	15000	0002-504 542	11,55				
60	18	15	15000	0002-505 542	12,65				
70	18	15	15000	0002-506 542	14,20				
80	19	20	12000	0002-507 542	17,35				

### Wheel brushes

#### crimped wire



Do-it-yourself type for commercially available power drills.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

	Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		min-1	pcs.	0,20	RRP	0,30	RRP		
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
50	7	10	4500	0003-600 211	2,75	0008-600 221	2,30		
63	9	13	4500	0003-600 311	3,00	0008-600 321	2,60		
75	10	16	4500	0008-600 411	3,00	0008-600 421	3,00		
75	15	16	4500			0008-600 422	5,00		
100	12	22	4500	0008-600 511	4,60	0008-600 521	4,35		
100	17	22	4500			0008-600 522	6,50		

mm		min-1	pcs.	0,20	RRP	0,30	RRP		
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
75	10	16	4500	0008-600 431	7,35	0008-600 432	6,75		
100	10	22	4500	0008-600 531	10,45				

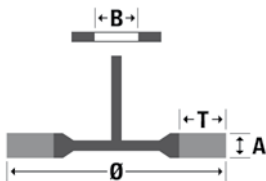


### Wheel brushes

#### crimped wire



Wheel brushes for wood working. Particularly suitable for brushing out annual (year) rings. Supplied on 8mm shaft.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire crimped →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

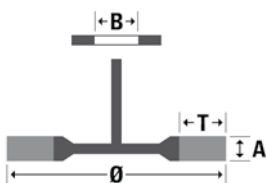
mm					0,25 Cordwire	RRP				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80	35	25	4000	1	<b>0908-507 061</b>	17,60				

### Wheel brushes

#### crimped wire plastic-bonded



Resin-bonded, 10 fold service life, no wire breakage.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire crimped →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

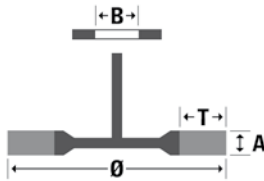
mm					0,30	RRP				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
63	8	20	15000	12	<b>0002-911 941</b>	16,15				
76	8	26	15000	12	<b>0002-911 951</b>	16,55				

# Brushes

## Power drills



The trim on these brushes follows the contours of the work piece without significantly affecting the surface. Brushes with abrasive bristles for cleaning materials.



**USAGE**

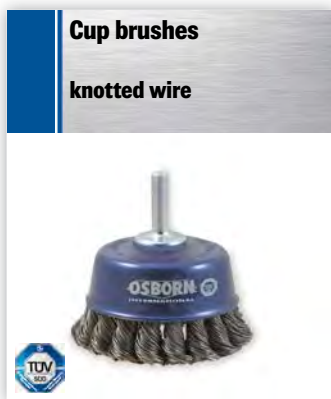
	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

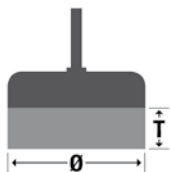
Products available with: Steel Cast steel Stainless steel Non-ferrous metal Aluminium Soft wood Hard wood

Abrasive bristle →

mm		max	min-1	pcs.	Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	10	16	4500	10	0802-600 491	9,45	0182-600 491	9,45		
100	10	23	4500	10	0802-600 591	10,25	0182-600 591	10,25		



High performance cup brushes for demanding cleaning work.



**USAGE**

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**TRIM AND MATERIAL**

Products available with: Steel Cast steel Stainless steel Non-ferrous metal Aluminium Soft wood Hard wood

Steel wire twist knot →

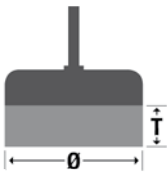
mm		max	min-1	pcs.	0,50	RRP				
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
65	23	6000	10	1004-608 151	11,75					

# Brushes Power drills

## Cup brush with plastic body crimped wire



Ideal for finishing stainless steel parts. The plastic body prevents contact corrosion.



**NEW!**

**USAGE**



	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

## BESATZ UND MATERIAL

Produkt erhältlich mit:

Stahldraht rostfrei →

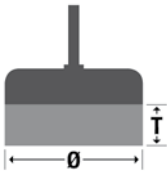


mm				0,25	RRP				
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
30	25	10000	10	<b>8713-613 351</b>	12,50				
40	30	10000	10	<b>8703-613 351</b>	18,50				
50	30	10500	10	<b>8723-613 351</b>	19,50				

## Cup brushes crimped wire



Do-it-yourself type for max. 4500 min-1.



**USAGE**



	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

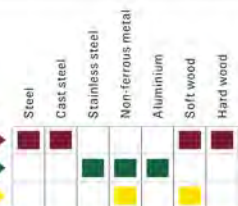
## TRIM AND MATERIAL

Products available with:

Steel wire crimped →

Stainless steel →

Brass wire →



mm				0,20	RRP	0,30	RRP	0,20	RRP
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	17	4500	20	<b>0008-600 811</b>	2,70	<b>0008-600 821</b>	2,65	<b>0023-600 851</b>	3,95
75	20	4500	10	<b>0008-600 911</b>	3,35	<b>0008-600 921</b>	3,25		

mm				0,20	RRP	0,30	RRP		
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	17	4500	20	<b>0008-600 831</b>	7,05	<b>0008-600 832</b>	6,50		
75	20	4500	10	<b>0013-600 931</b>	10,50	<b>0008-600 361</b>	9,60		

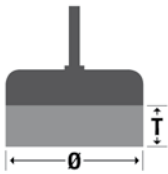
# Brushes

## Power drills


**Cup brushes**  
**crimped wire plastic-bonded**




Resin-bonded, 10 fold service life, no wire breakage.



**USAGE**



	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →

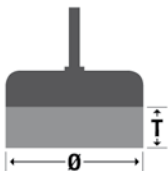
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		min-1	pcs.	0,30	RRP				
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	15	15000	6	<b>0002-930 821</b>	18,60				


**Cup brushes**  
**abrasive filament**




The trim on these brushes follows the contours of the work piece without significantly affecting the surface. Brushes with abrasive bristles for cleaning materials.



**USAGE**



	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		min-1	pcs.	Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	17	4500	10	<b>0802-600 891</b>	9,05	<b>0182-600 891</b>	9,05		
75	23	4500	10	<b>0802-600 991</b>	10,85	<b>0182-600 991</b>	10,85		



# Brushes

## Power drills

### End brushes

#### crimped wire



End brushes for pin-point accuracy and hard-to-reach areas. Professional version.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

##### Products available with:

Steel wire crimped →

Stainless steel →

Brass wire →

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm					0,20	RRP	0,30	RRP	0,50	RRP
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 141</b>	4,80	<b>0003-509 161</b>	4,25	<b>0003-509 191</b>	4,20
17	25	45	18000	12	<b>0002-509 142</b>	4,90	<b>0002-509 162</b>	4,45	<b>0002-509 192</b>	4,35
25	25	50	18000	12	<b>0002-509 143</b>	5,60	<b>0002-509 163</b>	5,35	<b>0002-509 193</b>	5,25
30	25	45	15000	12	<b>0002-509 144</b>	8,60	<b>0002-509 164</b>	8,05	<b>0002-509 194</b>	7,95

mm					0,20	RRP	0,30	RRP		
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 341</b>	7,10	<b>0003-509 361</b>	5,90		
17	25	45	18000	12	<b>0002-509 342</b>	7,85	<b>0002-509 362</b>	6,85		
25	25	50	18000	12	<b>0002-509 343</b>	9,75	<b>0002-509 363</b>	8,70		
30	25	45	15000	12	<b>0002-509 344</b>	14,00	<b>0002-509 364</b>	13,10		

mm					0,20	RRP	0,30	RRP		
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 541</b>	6,90	<b>0003-509 561</b>	5,75		
17	25	45	18000	12	<b>0002-509 542</b>	7,55	<b>0002-509 562</b>	6,75		
25	25	50	18000	12	<b>0002-509 543</b>	9,40	<b>0002-509 563</b>	6,90		
30	25	45	15000	12	<b>0002-509 544</b>	12,40	<b>0002-509 564</b>	10,15		

### End brushes

#### crimped wire



End brushes for pin-point accuracy and hard-to-reach areas. DIY version.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

##### Products available with:

Steel wire crimped →

Stainless steel →

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm					0,30	RRP	0,30	RRP		
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
12	20	45	4500	20	<b>0008-509 161</b>	2,45				
17	25	45	4500	12	<b>0008-509 162</b>	2,75				
25	25	50	4500	12			<b>0008-509 363</b>	5,75		
25	30	50	4500	12	<b>0008-509 163</b>	2,95				
30	35	50	4500	12	<b>0008-509 164</b>	3,50				

# Brushes

## Power drills



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

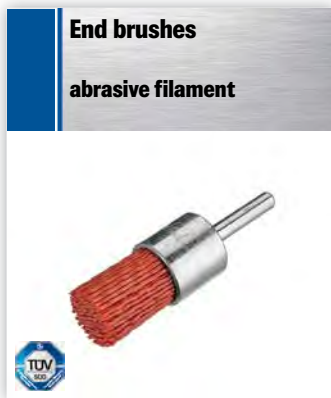
Products available with:

Steel wire crimped →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				max		0,30	RRP				
Ø	T	K	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
17	24	16	43	15000	12	0002-930 902	12,60				
24	23	23	43	15000	12	0002-930 907	13,40				
31	23	29	43	15000	12	0002-930 912	16,05				

Resin-bonded, 10 fold service life, no wire breakage.



**USAGE**

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

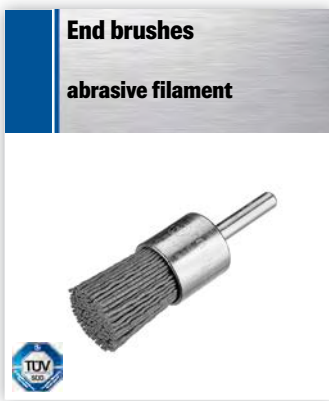
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				max		Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	T	K	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	25	22	45	5000	12	0812-509 913	4,65	1812-509 913	4,65		

The trim on these brushes follows the contours of the work piece without significantly affecting the surface. Brushes with abrasive bristles for cleaning materials.



# Brushes Power drills



**USAGE**

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm						Novofil 120	RRP	Novofil 180	RRP	Novofil 320	RRP
Ø	T	K	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	25	10	50	5000	12			<b>1802-509 911</b>	21,15	3202-509 911	21,15
15	25	15	43	5000	12	<b>1202-509 912</b>	22,45	<b>1802-509 912</b>	22,45	<b>3202-509 912</b>	22,45
22	25	22	50	5000	12	<b>1202-509 913</b>	25,95	<b>1802-509 913</b>	25,95	3202-509 913	25,95
28	25	28	45	5000	12	1202-509 914	30,70	<b>1802-509 914</b>	30,70	3202-509 914	30,70

End brushes with silicon carbide bristles  
Professional, industrial quality version.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

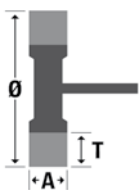
**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm					0,30 steel	RRP	0,30 brass-coated	RRP		
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	23	25	3500	5	<b>0004-401 132</b>	8,85	<b>0004-401 052</b>	8,85		

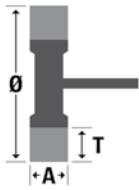


# Brushes

## Power drills

### Flap wheel brushes

abrasive / natural Fibre



#### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	■	■	■	■	■	■	■
planing	□	□	□	□	□	□	□
deburring	□	□	■	■	■	■	■
edge honing	□	□	■	■	■	■	■
structuring	■	■	■	■	■	■	■
descaling/paint stripping	■	■	■	■	■	■	■
weld seams	□	□	□	□	□	□	□

#### TRIM AND MATERIAL

Products available with:

Abrasive bristle →

Natural bristle →

	Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Abrasive bristle	■	■	■	■	■	■	■
Natural bristle	■	■	■	■	■	■	■

mm		min-1		pcs.		Grit 80 Red	RRP	Grit 180 Blue	RRP	Fibre	RRP
Ø	A	T				Order-No.	€	Order-No.	€	Order-No.	€
100	23	25	3500	5		0001-401 912	12,60	0011-401 912	12,60	0004-401 942	8,95

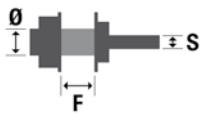
### Drive arbor

#### Type I



mm		mm		pcs.		RRP		RRP	
Ø	inch	F	S			Order-No.	€	Order-No.	€
10		20	6	1		0003-000 100	9,75		
13		20	6	1		0003-000 130	16,20		
12,7	1/2 Zoll	20	6	1		0004-000 127	12,95		

For wheel brushes with arbor hole. Brushes can be mounted up to a face width of max. 20 mm.



# Brushes

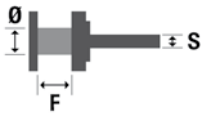
## Power drills

### Drive arbor

#### Type II



For wheel brushes with arbor hole. Brushes can be mounted up to a face width of max. 11 mm.



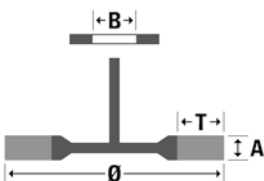
mm					RRP					
Ø	inch	F	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
9,5	3/8 Zoll	11	6	1	<b>9907-075 128</b>	18,45				
12,7	1/2 Zoll	11	6	1	<b>9907-075 129</b>	18,45				
15,9	5/8 Zoll	11	6	1	<b>9907-075 130</b>	18,45				

### Wheel brushes

#### crimped wire



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire crimped →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm					0,30		RRP			
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	7	10	4500	20	<b>1008-600 221</b>	2,30				
75	10	22	4500	10	<b>1008-600 421</b>	3,00				
100	12	22	4500	10	<b>1008-600 521</b>	4,35				





# Brushes

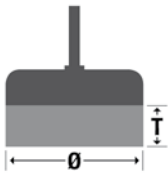
## Power drills

### Cup brushes

#### crimped wire



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire crimped →



mm		min-1	pcs.	0,30	RRP				
Ø	T			Order-No.	€	Order-No.	€	Order-No.	€
50	17	4500	20	1008-600 821	2,65				
75	20	4500	10	1008-600 921	3,25				



### End brushes

#### crimped wire



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire crimped →



mm			min-1	pcs.	0,30	RRP				
Ø	T	L			Order-No.	€	Order-No.	€	Order-No.	€
25	30	50	4500	12	1008-509 163	2,95				



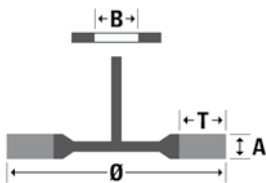
# Brushes Power drills

## Wheel brushes

### knotted wire



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



### USAGE

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Steel wire twist knot

mm					0,50	RRP				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	18	4500	12	<b>1008-611 151</b>	10,90				

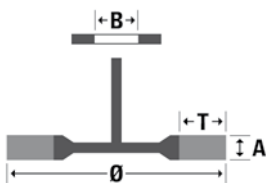


## Wheel brushes

### abrasive filament



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Abrasive bristle

mm					Crit 80 Red	RRP	Crit 180 Blue	RRP		
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	16	10	4500	10	<b>1018-600 491</b>	9,45	<b>1008-600 491</b>	9,45		



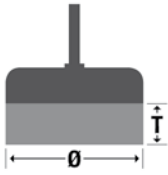
# Brushes

## Power drills

### Cup brushes abrasive filament



With 1/4" hexagon-shank for quick-change of brushes. Fits in any bit holder and current drill chuck.



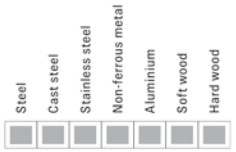
#### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	■	■	■	■	■	■	■
planing	□	□	□	□	□	□	□
deburring	□	□	■	■	■	■	■
edge honing	□	□	□	□	□	□	□
structuring	■	■	■	■	■	■	■
descaling/paint stripping	■	■	■	■	■	■	■
weld seams	□	□	□	□	□	□	□

#### TRIM AND MATERIAL

Products available with:

Abrasive bristle →



mm		min-1	pcs.	Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	T			Order-No.	€	Order-No.	€	Order-No.	€
75	23	4500	10	1018-600 991	10,85	1008-600 991	10,85		



pcs.	RRP				
	Order-No.	€	Order-No.	€	Order-No.
5	1008-000 121	5,75			

### Shaft for hexagonal brushes



Holder for tools with quick-change shank, max. 4500 rpm.



**BRUSHES FOR HIGH-SPEED MACHINES**



# BRUSHES

## High-speed machines



### Important user information

#### Brushes for high-speed machines



To be noted when selecting brushes and using high-speed machines:

#### 1. General user information

Thanks to their reinforced components and especially rigid clamping characteristics, the brushes on the following pages are suitable for high-speed drive units (e.g. straight grinders, pneumatic tools) and for all common brands.

#### 2. Typical brushes for high-speed machines



##### Wheel brushes

Available with knotted and crimped wire .



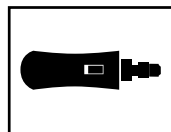
##### End brushes

Available with knotted, abrasive and crimped wire, as well as extra-long shaft and special shapes.



##### Please note:

End brushes spread during operation.



##### The machine information on the packaging and displays

Details on machine suitability can also be found on the machine icons on Osborn packaging and counter and shelf displays.



# Brushes

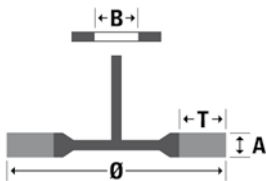
## High-speed machines



### Wheel brushes

#### knotted wire

For heavy-duty cleaning and deburring applications such as slag and silicate removal, weld seam finishing or removal of the underfloor protection in motor vehicles.



USAGE		mm						
		Ø	A	T	B	Shank	min-1	pcs.
roughening	0,26							
planing	0,35							
deburring	0,50							
edge honing	0,60							
structuring	0,80							
descaling/paint stripping								
weld seams								

TRIM AND MATERIAL		mm						
		Ø	A	T	B	Shank	min-1	pcs.
Products available with:								
Steel wire twist knot	Steel							
Stainless steel	Cast steel							
	Stainless steel							
	Non-ferrous metal							
	Aluminium							
	Soft wood							
	Hard wood							

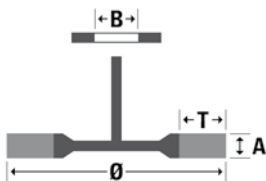
0,35		RRP		0,50		RRP		0,50		RRP	
Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€
0202-611 131	11,05	0202-611 151	10,90	0202-611 351	20,90						



### Wheel brushes

#### crimped wire

Recommended working speed approx. 50% of maximum RPM. For non-destructive and light cleaning work, deburring and processing bores.



USAGE		mm						
		Ø	A	T	B	Shank	min-1	pcs.
roughening	0,15							
planing	0,20							
deburring	0,25/0,27							
edge honing	0,30							
structuring	0,35							
descaling/paint stripping	0,40							
weld seams	0,50							

TRIM AND MATERIAL		mm						
		Ø	A	T	B	Shank	min-1	pcs.
Products available with:								
Steel wire crimped	Steel							
Stainless steel	Cast steel							
	Stainless steel							
	Non-ferrous metal							
	Aluminium							
	Soft wood							
	Hard wood							

0,15		RRP		0,20		RRP		0,30		RRP	
Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€
0002-501 132	8,40	0002-501 142	8,05	0002-501 143	11,05	0002-502 141	5,45	0002-502 142	6,70	0002-502 143	9,55
0002-502 132	8,05	0002-503 141	5,20	0002-503 142	7,50	0002-503 143	9,85	0002-504 141	5,55	0002-504 161	5,05
0002-503 132	8,45	0002-504 142	7,70	0002-504 162	7,00	0002-504 163	9,95	0002-505 141	5,70	0002-505 161	5,35
0002-504 132	8,85	0002-505 142	8,40	0002-505 162	7,70	0002-506 141	5,85	0002-505 143	12,30	0002-506 161	5,75
0002-505 132	10,00	0002-506 142	9,20	0002-506 162	7,95	0002-506 143	12,50	0002-506 163	10,95	0002-506 163	11,20
0002-506 132	11,55	0002-507 142	9,55								

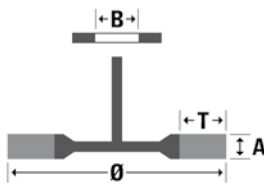
Continue next page.

# Brushes

## High-speed machines



Recommended working speed approx. 50% of maximum RPM. For non-destructive and light cleaning work, deburring and processing bores.



**USAGE**

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

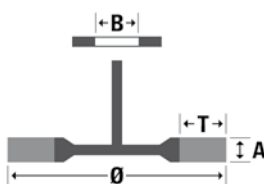
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				0,15	RRP	0,20	RRP	0,30	RRP
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	6	4	20000	0002-501 332	16,30	0002-501 342	14,95		
20	9	4	20000	0002-501 333	18,60	0002-501 343	17,60		
30	6	6	20000			0002-502 341	6,95		
30	9	6	20000	0002-502 332	9,50	0002-502 342	8,90		
30	12	6	20000	0002-502 333	14,55	0002-502 343	14,25		
40	7	10	18000	0002-503 331	8,90	0002-503 341	8,60		
40	11	10	18000	0002-503 332	13,95	0002-503 342	12,85		
40	16	10	18000	0002-503 333	18,45	0002-503 343	18,10		
50	10	13	15000			0002-504 341	7,50	0002-504 361	6,90
50	17	13	15000	0002-504 332	15,60	0002-504 342	14,55	0002-504 362	14,25
50	23	13	15000			0002-504 343	19,40	0002-504 363	18,60
60	12	15	15000			0002-505 341	8,45	0002-505 361	7,20
60	18	15	15000	0002-505 332	16,80	0002-505 342	16,10	0002-505 362	15,60
60	23	15	15000			0002-505 343	19,05	0002-505 363	19,40
70	11	15	15000			0002-506 341	8,60	0002-506 361	8,35
70	18	15	15000	0002-506 332	18,55	0002-506 342	16,55	0002-506 362	15,85
70	23	15	15000			0002-506 343	19,75	0002-506 363	20,65
80	10	20	12000					5162-507 361	11,35
80	19	20	12000			0002-507 342	16,60	0002-507 362	17,70

mm				0,20	RRP
Ø	A	T	min-1	Order-No.	€
20	9	4	20000	0002-501 542	14,85
30	9	6	20000	0002-502 542	8,00
40	11	10	18000	0002-503 542	9,65
50	17	13	15000	0002-504 542	11,55
60	18	15	15000	0002-505 542	12,65
70	18	15	15000	0002-506 542	14,20
80	19	20	12000	0002-507 542	17,35



Silicon carbide abrasive bristle for deburring, edge rounding and surface finishing. Also suitable for non-ferrous metals.



**USAGE**

roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

mm				Grit 120	RRP	Grit 180	RRP	Grit 320	RRP	
Ø	A	T	B	min-1	Order-No.	€	Order-No.	€	Order-No.	
38	10	6	1/2"	20000	9906-011 146	11,30	9906-011 147	11,30	9906-011 148	11,30
50	10	11	5/8"	15000	9906-011 149	12,10	9906-011 150	12,10	9906-011 151	12,10
63	13	17	5/8"	15000	9906-011 153	13,10	9906-011 154	13,10	9906-011 155	13,10

mm				Grit 120	RRP	Grit 180	RRP	Grit 320	RRP	
Ø	A	T	S	min-1	Order-No.	€	Order-No.	€	Order-No.	
38	10	6	6	20000	9906-011 446	12,50	9906-011 447	12,50	9906-011 448	12,50
50	10	11	6	15000	9906-011 449	13,40	9906-011 450	13,40	9906-011 451	13,40
63	13	17	6	15000	9906-011 453	14,65	9906-011 454	14,65	9906-011 455	14,65

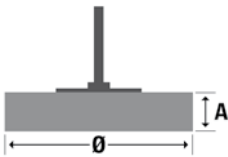
# Brushes

## High-speed machines

### Flap wheels



Flap wheels are suited for surface finishing of most component parts out of steel, nonferrous metals, wood and hard plastics. With aluminium oxide.



#### USAGE

deburning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
rough grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

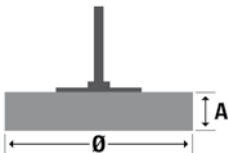
Aluminium oxide paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm					Grit 60	RRP	Grit 80	RRP	Grit 120	RRP
Ø	A	S	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
30	10	6	23000	10	0063-003 010	3,80	0083-003 010	3,80	0123-003 010	3,80
30	20	6	23000	10	0063-003 020	4,75	0083-003 020	4,75	0123-003 020	4,75
40	10	6	17000	10	0063-004 010	4,60	0083-004 010	4,60	0123-004 010	4,60
40	30	6	17000	10	<b>0063-004 030</b>	5,40	<b>0083-004 030</b>	5,40	<b>0123-004 030</b>	5,40
50	10	6	14000	10	0063-005 010	4,70	0083-005 010	4,70	0123-005 010	4,70
50	20	6	14000	10	0063-005 020	5,75	0083-005 020	5,75	0123-005 020	5,75
50	30	6	14000	10	<b>0063-005 030</b>	6,25	<b>0083-005 030</b>	6,25	<b>0123-005 030</b>	6,25
60	20	6	11000	10	0063-006 020	6,45	0083-006 020	6,45	0123-006 020	6,45
60	30	6	11000	10	<b>0063-006 030</b>	6,90	<b>0083-006 030</b>	6,90	<b>0123-006 030</b>	6,90
60	40	6	11000	10	0063-006 040	8,35	0083-006 040	8,35	0123-006 040	8,35

### Flap wheels of abrasive fleece



Flap wheels of abrasive fleece are especially suited for surface cleaning. On metal surfaces, they produce a grinding finish with a high density. With aluminium oxide.



#### USAGE

rough grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
satin finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Aluminium oxide fleece	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm					Grit 80	RRP	Grit 150	RRP	Grit 240	RRP
Ø	A	S	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
40	20	6	8000	10	<b>0083-304 020</b>	8,30	<b>0153-304 020</b>	8,30	<b>0243-304 020</b>	8,30
40	30	6	8000	10	0083-304 030	9,75	0153-304 030	9,75	0243-304 030	9,75
50	20	6	7500	10	<b>0083-305 020</b>	9,55	0153-305 020	9,55	0243-305 020	9,55
50	30	6	7500	10	<b>0083-305 030</b>	10,10	<b>0153-305 030</b>	10,10	<b>0243-305 030</b>	10,10
50	40	6	7500	10	0083-305 040	12,05	0153-305 040	12,05	0243-305 040	12,05
60	30	6	7000	10	<b>0083-306 030</b>	12,55	<b>0153-306 030</b>	12,55	<b>0243-306 030</b>	12,55
60	40	6	7000	10	0083-306 040	12,80	0153-306 040	12,80	0243-306 040	12,80


# Brushes

## High-speed machines

**End brushes**  
**knotted wire**



**USAGE**



	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


mm				0,26	RRP	0,35	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
20	29	44	20000	12	0002-630 328	26,60		
23	29	44	20000	12	0002-630 334	27,60	0002-630 335	27,45
30	29	44	20000	12	0002-630 340	32,65	0002-630 341	32,05

Altering the RPMs means that the diameter can also be varied.




mm				0,26	RRP	0,35	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
20	29	44	20000	12	0002-630 304	17,50	0002-630 305	16,60
23	29	44	20000	12	0002-630 310	18,80	0002-630 311	17,35
30	29	44	20000	12	0002-630 316	23,00	0002-630 317	20,60

**End brushes**  
**knotted Osborn wire**



**PREMIUM**

**USAGE**



	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				Osborn 0,15	RRP	Osborn 0,26	RRP	Osborn 0,35	RRP
Ø	L	T	S	min-1	pcs.	Order-No.	€	Order-No.	€
20	43	29	6	20000	12	9906-030 302	20,15	9906-030 304	16,95
23	43	29	6	20000	12	9906-030 308	21,85	9906-030 310	18,00
30	43	29	6	20000	12	9906-030 314	29,15	9906-030 316	22,15

RUFTUF® with Original Osborn steel wire - a high performance wire developed by Osborn.



mm				Osborn 0,50	RRP
Ø	L	T	S	min-1	pcs.
23	43	29	6	20000	12
30	43	29	6	20000	12

### Important:

Brushes flare during operation (see picture)

Information on the grade of flaring in relation to the body-diameter and operating speed, please see table.



Body-Ø	Wire size	At Speed ≤ min <sup>-1</sup> 5000	At Speed ≤ min <sup>-1</sup> 8000	At Speed ≤ min <sup>-1</sup> 15000
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


Recommended operating speed approx. 50% of the maximum rpm.




# Brushes

## High-speed machines


**End brushes**  
**knotted Osborn wire**



**PREMIUM**



**USAGE**



	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				rpm	pcs.	Osborn 0,15 *	RRP	Osborn 0,26 *	RRP	Osborn 0,35 *	RRP
Ø	L	T	S	min-1		Order-No.	€	Order-No.	€	Order-No.	€
20	43	29	6	20000	12	<b>9906-030 326</b>	27,95	<b>9906-030 328</b>	25,10	<b>9906-030 329</b>	23,45
23	43	29	6	20000	12	<b>9906-030 332</b>	28,65	<b>9906-030 334</b>	26,05	<b>9906-030 335</b>	25,85
30	43	29	6	20000	12	<b>9906-030 338</b>	39,50	<b>9906-030 340</b>	30,75	<b>9906-030 341</b>	30,15

\* stainless steel version degreased.

RUFTUF® with Original Osborn steel wire  
- a high performance wire developed by Osborn.



**Important:**

Brushes flare during operation (see picture)  
Information on the grade of flaring in relation to the body-diameter and operating speed, please see table.



Body-Ø	Wire size	At Speed ≤ min <sup>-1</sup> 5000	At Speed ≤ min <sup>-1</sup> 8000	At Speed ≤ min <sup>-1</sup> 15000
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

Recommended operating speed approx. 50% of the maximum rpm.



# Brushes

## High-speed machines



Ideal for hard-to-reach areas. Extra-long tapered shank. Knotted wire.



**USAGE**

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

**TRIM AND MATERIAL**

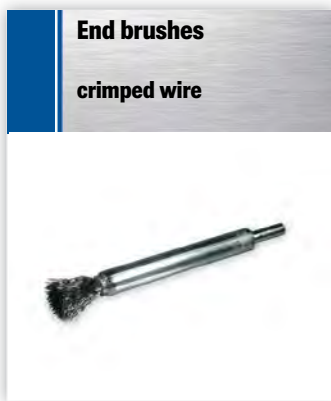
Products available with:

Steel wire twist knot →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

Stainless steel →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm				0,25	RRP	0,35	RRP	0,50	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	26	72	15000	12	9803-630 151	6,85	9803-630 171	6,75	9803-630 101	6,75

mm				0,25	RRP	0,35	RRP	0,50	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	26	72	15000	12	9803-630 351	7,75	9803-630 371	7,65	9803-630 301	7,65



Extra-long tapered shank. Crimped wire.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

Stainless steel →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm				0,20	RRP	0,30	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
10	20	100	9000	10	0003-509 149	6,45	0003-509 169	5,80

mm				0,20	RRP	0,30	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
10	20	100	9000	10	0003-509 349	12,85	0003-509 369	11,80


# Brushes

## High-speed machines



**End brushes**  
crimped wire

**USAGE**



	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

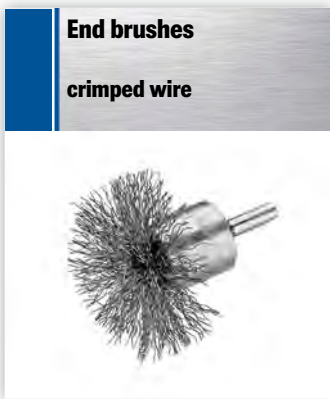
mm				0,20	RRP	0,30	RRP	0,50	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 141</b>	4,80	<b>0003-509 161</b>	4,25	<b>0003-509 191</b>	4,20
17	25	45	18000	12	<b>0002-509 142</b>	4,90	<b>0002-509 162</b>	4,45	<b>0002-509 192</b>	4,35
25	25	50	18000	12	<b>0002-509 143</b>	5,60	<b>0002-509 163</b>	5,35	<b>0002-509 193</b>	5,25
30	25	45	15000	12	<b>0002-509 144</b>	8,60	<b>0002-509 164</b>	8,05	<b>0002-509 194</b>	7,95

End brushes for pin-point accuracy and hard-to-reach areas. Professional version.




mm				0,20	RRP	0,30	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 341</b>	7,10	<b>0003-509 361</b>	5,90
17	25	45	18000	12	<b>0002-509 342</b>	7,85	<b>0002-509 362</b>	6,85
25	25	50	18000	12	<b>0002-509 343</b>	9,75	<b>0002-509 363</b>	8,70
30	25	45	15000	12	<b>0002-509 344</b>	14,00	<b>0002-509 364</b>	13,10

mm				0,20	RRP	0,30	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 541</b>	6,90	<b>0003-509 561</b>	5,75
17	25	45	18000	12	<b>0002-509 542</b>	7,55	<b>0002-509 562</b>	6,75
25	25	50	18000	12	<b>0002-509 543</b>	9,40	<b>0002-509 563</b>	6,90
30	25	45	15000	12	<b>0002-509 544</b>	12,40	<b>0002-509 564</b>	10,15



**End brushes**  
crimped wire

**USAGE**



	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

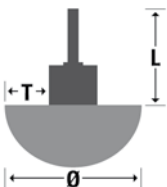
**TRIM AND MATERIAL**

Products available with:

Steel wire crimped	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				0,30	RRP
Ø	L	min-1	pcs.	Order-No.	€
50	45	15000	5	<b>0002-509 165</b>	8,95
70	45	15000	5	<b>0002-509 167</b>	11,20

Special design for dressing rounded wels or indentations.



# Brushes

## High-speed machines



Flat shape, high form stability.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

Stainless steel →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm			max	min-1	pcs.	0,40	RRP	0,50	RRP
Ø	T	L				Order-No.	€	Order-No.	€
8	29	57	12000	12	0024-509 101	7,75			
9,5	29	55	12000	12	0024-509 102	12,50			
10	27	158	12000	6	1224-509 101	11,05			
12	29	60	12000	12	0024-509 111	7,85			
12	55	55	12000	6	0014-509 102	10,75			
20	25	47	12000	6	0024-509 103	13,55	0024-509 303	18,55	
20	70	51	12000	6	0034-509 103	18,25			
28	25	47	12000	6	0004-509 104	21,55	0004-509 304	27,05	



Sharp shape, high stability.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

Stainless steel →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm			max	min-1	pcs.	0,30 *	RRP	0,40	RRP	0,50	RRP
Ø	T	L	Type			Order-No.	€	Order-No.	€	Order-No.	€
9,5	32	57	122 P	12000	12			0124-509 101	9,05		
10	27	125	121 P/L	12000	6			2224-509 101	11,75		
10	31	55	123 P	12000	12			0224-509 101	10,15		
11	32	59	103 P	12000	6	0004-509 102	12,50				
12	30	61	124 P	12000	12			0124-509 111	9,55		
19	31	51	102 P	12000	6					0124-509 103	12,05
19	64	50	225	12000	6					0024-509 100	16,60

\* straight wire.

mm			max	min-1	pcs.	0,30	RRP	0,50	RRP
Ø	T	L	Type			Order-No.	€	Order-No.	€
9,5	32	57	122 P	12000	12	0074-509 301	12,55		
11	32	59	103 P	12000	6			0004-509 302 *	16,70
19	31	51	102 P	12000	6			0124-509 303	18,20
25	35	50	103 P	12000	6			0014-509 304	27,25

\* straight wire.

# Brushes


## High-speed machines

**End brushes**  
abrasive filament



**PREMIUM**

**USAGE**





	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood


mm				120	RRP	180	RRP	320	RRP		
Ø	L	T	S	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	45	25	6	8000	12	9906-030 488	21,20	9906-030 489	21,20	<b>9906-030 490</b>	21,20
15	45	25	6	5000	12	<b>9906-030 492</b>	22,50	<b>9906-030 493</b>	22,50	<b>9906-030 494</b>	22,50
22	45	25	6	5000	12	<b>9906-030 496</b>	26,05	9906-030 497	26,05	9906-030 498	26,05
28	45	25	6	5000	12	9906-030 500	31,35	9906-030 501	31,35	9906-030 502	31,35

Silicon carbide abrasive bristle for deburring, edge rounding and surface finishing. Also suitable for non-ferrous metals.

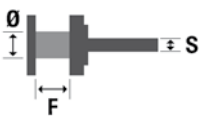


**Drive arbor**  
Type II



mm		inch		F	S		RRP			
Ø	inch	F	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
9,5	3/8 Zoll	11	6	1	<b>9907-075 128</b>	18,45				
12,7	1/2 Zoll	11	6	1	<b>9907-075 129</b>	18,45				
15,9	5/8 Zoll	11	6	1	<b>9907-075 130</b>	18,45				

For wheel brushes with arbor hole. Brushes can be mounted up to a face width of max. 11 mm.



**BRUSHES**





**BRUSHES FOR STATIONARY MACHINES**



# BRUSHES

## Stationary machines



### Important user information

#### Brushes for stationary machines



To be noted when selecting brushes and using stationary machines:

#### 1. General user information

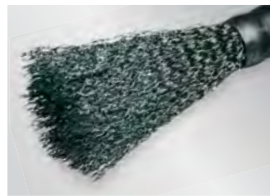
Brushes for stationary machines are suitable for bench deburrers, double grinders and special deburring machines.

#### 2. Typical brushes for stationary machines



##### Wheel brushes

Available with knotted and crimped wire, as well as abrasive filament trim.



##### End brushes

Available for brush heads for cut edge finishing.

#### Standard bores for single-row brushes

Ø Brush		Ø Bore (mm)	13	15,9	16	19	20	22,2	25,4	30	31,8	32	35	38	40	44,4	50,8
mm	"	Inch (")		5/8"		3/4"		7/8"	1"		1 1/4"		1 3/8"				2"
75	3		✓	✓	✓												
100	4		✓	✓	✓	✓	✓										
125	5		✓	✓	✓	✓	✓	✓	✓	✓	✓						
150	6		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
178	7		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	
200	8					✓	✓	✓	✓	✓	✓	✓	✓	✓			✓
250	10						✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
300	12								✓	✓	✓	✓	✓	✓	✓		✓
350	14										✓	✓	✓	✓	✓		✓

\* reducible using 4M adapter, with grooves. For details of reduction pieces, see „Technical Information for Brushes“

#### Standard bores for multi-row brushes

Pipe Ø		Bore Ø (mm)	9.53	10	12.7	13	16	19	20	22.2	25.4	30	31.8	32	35	40	50.8
mm	"	Inch (")	3/8"		1/2"		5/8"	3/4"		7/8"	1"		1 1/4"		1 3/8"		2"
20			8.109	8.110	8.112	8.113	8.116										
30			8.209	8.210	8.212	8.213	8.216	8.219	8.720	8.222	8.225						
50.8					8.412	8.413	8.416	8.419	8.420	8.422	8.425	8.430	8.431	8.432	8.435		
80							8.616	8.619	8.620	8.622	8.625	8.630	8.631	8.632	8.635	8.640	8.642
100									8.720	8.722	8.725	8.730	8.731	8.732	8.735	8.740	8.742
120											8.8.25	8.8.30	8.8.31	8.8.32	8.8.35	8.8.40	8.8.42



**Important** Please always accompany your order for bores for multi-row brushes with the following code: 000200, then the 4-character code from the table above.

**If no bore is specified, we will supply the brush with the standard "B-min" bore.**

# Brushes

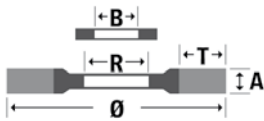
## Stationary machines

### Wheel brushes

#### knotted wire



High performance version with knotted wire for demanding cleaning work and deburring.



#### USAGE

	0,26	0,35	0,50	0,60	0,80
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire twist knot →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		mm		mm		mm		mm		mm		
Ø	A	T	B min. B max.	R	Adapt.	min-1	pcs.	0,35	RRP	0,50	RRP	
Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	
200	13	42	20 40		4-M	8500	1	0002-664 131	35,60	<b>0002-664 151</b>	34,05	
200	26	42	50,8	50,8		8500	1			<b>0002-664 152</b>	74,65	
200	35	42	35	35		8500	1			5462-664 153	112,00	
250	15	42	25,4 40		4-M	4500	2	<b>0002-676 131</b>	48,65	<b>0002-676 151</b>	48,05	
300	18	55	25,4 40		4-M	3600	2	0002-686 131	66,80	<b>0002-686 151</b>	65,15	
											0002-676 181	44,80
											0002-686 181	63,05

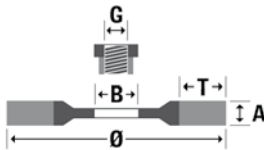
For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

### Joint brushes

#### knotted wire



For road building to clean expansion joints/gaps and narrow spots with thin working width.



mm		mm		mm		mm		mm		mm	
Ø	A	T	B	min-1	pcs.	0,50	RRP	0,80	RRP	Order-No.	€
Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€
300	4	68	20	3600	6	<b>9802-026 560</b>	42,10				
300	6	68	20	3600	6	<b>9802-026 561</b>	44,20	<b>9802-026 581</b>	42,15		
300	8	68	20	3600	6	<b>9802-026 562</b>	49,50	<b>9802-026 582</b>	46,50		
300	10	68	20	3600	6	<b>9802-026 563</b>	52,50	<b>9802-026 583</b>	47,50		

For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

# Brushes

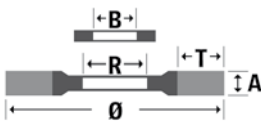
## Stationary machines

### Wheel brushes

crimped wire



Narrow version for easy self-installation to achieve larger working widths.



### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

	Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm									0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	11	15	13	13			10000	5	0002-511 141	10,75	0002-511 161	9,60		
100	13	23	13	30			8000	8	0002-522 141	13,45	0002-522 161	11,70		
100	13	23	13	20			8000	8			0002-532 161	12,20		
125	15	35	13	20			6000	5	0002-544 141	20,50				
150	16	32	13	32			6000	4			0002-544 161	14,45		
150	16	32	13	32			6000	8	0002-554 141	22,95				
178	18	45	13	32			6000	4			0002-554 161	16,75		
178	18	45	13	32			6000	8			0002-566 161	21,55		
200	19	38	19	40	50,8	4-M	4500	1	0002-566 141	27,35				
200	19	38	19	40	50,8	4-M	4500	2	0002-576 141	58,20	0002-576 161	42,50		
250	22	35	20	40	50,8	4-M	3600	2	0002-587 141	80,20				
300	26	58	20	40	50,8	4-M	3000	2			0002-587 161	52,10		
300	26	58	20	40	20		3000	1						

For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

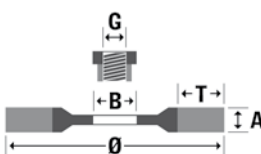
mm									0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	11	15	13	13			10000	5	0002-511 341	14,35	0002-511 361	12,85		
100	13	23	13	20			8000	8	0002-522 341	20,35	0002-522 361	18,60		
125	15	35	13	20			6000	5	0002-532 341	28,30	0002-532 361	26,30		
150	16	32	13	32			6000	3	0002-544 341	33,35	0002-544 361	32,75		
178	18	45	13	32			6000	4			0002-554 361	35,90		
200	19	38	19	40	50,8	4-M	4500	1	0002-554 341	33,65				
200	19	38	19	40	50,8	4-M	4500	2	0002-566 341	37,50	0002-566 361	38,90		
250	22	35	20	40	50,8	4-M	3600	2	0002-576 341	98,75	0002-576 361	93,80		
300	26	58	20	40	50,8	4-M	3000	2	0002-587 341	115,00	0002-587 361	107,00		

For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

### Band-saw-brush



To remove chips on the band saw or circular saw blades in order to protect the teeth. Increases the service life of the saw blade and optimizes cutting accuracy. Wire trim for aluminum & metal, nylon trim for plastics and wood.



mm									0,20 brass-coated	RRP	0,50	RRP	0,80	RRP
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€	
60	15	10	8	10000	10	1913-511 041	13,30							
80	15	20	8	10000	10	7603-511 041	13,60							
85	10	13,5	12	8000	10					9803-511 851	14,20			
100	13	21	10	8000	10					1903-515 851	15,30			
100	13	21	13	8000	10					9403-515 851	15,30			
100	15	20	8	8000	10							0003-515 827	15,30	
110	13	26	13	8000	10					1303-532 851	15,70			

# Brushes

## Stationary machines

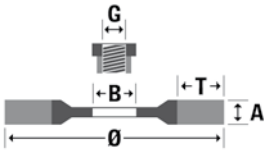
### Wheel brushes

crimped Osborn wire



**PREMIUM**

Narrow version for easy self-installation to achieve larger working widths, combining several brushes on one shaft. Specially hardened wire for industrial applications.



### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire crimped

Stainless steel

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm							Osborn 0,15	RRP	Osborn 0,20	RRP	Osborn 0,30	RRP
Ø	A	T	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	12	20	16	F	6000	2	9906-021 002	37,65				
125	18	28	50,8	1-A	6000	1	9906-022 051	40,05	9906-022 052	33,30		
150	14	29	31,75	3-A	6000	6	9906-021 009	34,05	<b>9906-021 013</b>	27,95	<b>9906-021 163</b>	24,15
178	22	40	50,8	1-A	6000	1	9906-022 071	130,00	<b>9906-022 072</b>	49,60	9906-022 075	43,90
178	42		50,8	1-A	6000	1			9906-022 032	104,00		

For other bore sizes, see Adapters on pages 71 & 72.

mm							Osborn 0,35	RRP	Osborn 0,26	RRP
Ø	A	T	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€
100	12	20	16	F	6000	2			9906-021 055	32,50
150	14	29	31,75	3-A	6000	6			9906-021 059	52,90
150	20	26	50,8	1-A	6000	1	<b>9906-022 066</b>	32,55		
150	32	26	50,8	1-A	6000	1	9906-022 008	72,45		

For other bore sizes, see Adapters on pages 71 & 72.

mm							Osborn 0,15	RRP	Osborn 0,20	RRP
Ø	A	T	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€
200	18	37	50,8	1-A	4500	2	<b>9906-021 183</b>	105,00	<b>9906-021 184</b>	54,60
200	22	37	50,8	1-A	4500	1	9906-022 081	85,55		
200	22	37	50,8	1-A	4500	2			<b>9906-022 082</b>	72,20
200	42	37	50,8	1-A	4500	1	9906-022 010	297,00	9906-022 025	148,00
250	26	60	50,8	4-M	3600	2	9906-013 007	129,00	9906-013 008	104,00
300	28	60	50,8	4-M	3000	3			9906-013 020	137,00

For other bore sizes, see Adapters on pages 71 & 72.

mm							Osborn 0,30	RRP	Osborn 0,35	RRP	Osborn 0,50	RRP
Ø	A	T	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
200	22	37	50,8	1-A	4500	2	<b>9906-022 085</b>	64,60	9906-022 086	59,40	9906-022 088	55,70
250	26	60	50,8	4-M	3600	2	9906-013 009	92,65	9906-013 010	90,10	<b>9906-013 011</b>	83,80
300	28	60	50,8	4-M	3000	2	<b>9906-013 021</b>	126,00	<b>9906-013 022</b>	119,00	<b>9906-013 023</b>	113,00
380	32	72	50,8	4-M	2400	2	<b>9906-013 057</b>	179,00	9906-013 058	176,00		

For other bore sizes, see Adapters on pages 71 & 72.



# Brushes

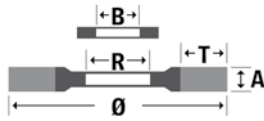
## Stationary machines

### Wheel brushes

crimped wire



Compatible deburring brush with high wire density for use in stationary machines such as benchtop grinders and tabletop deburrers.



### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	■	■	■	■	■	■	■
planing	■	■	■	■	■	■	■
deburring	■	■	■	■	■	■	■
edge honing	■	■	■	■	■	■	■
structuring	■	■	■	■	■	■	■
descaling/paint stripping	■	■	■	■	■	■	■
weld seams	■	■	■	■	■	■	■

### TRIM AND MATERIAL

Products available with:

Steel wire crimped

Stainless steel

Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
■	■	■	■	■	■	■

mm								0,20	RRP	0,30	RRP	0,35	RRP
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	19	16		20	20	10000	4	9902-511 142	16,20	9902-511 162	15,45		
100	20	23		20	30	8000	5	9902-522 142	18,80	9902-522 162	15,45		
100	28	23		20	30	8000	5	9902-522 143	24,15	9902-522 163	21,95		
125	22	30		20	30	6000	5	9902-532 142	21,45	9902-532 162	17,70		
125	30	30		20	30	6000	5			9902-532 163	23,00		
150	21	25		31,75	50,8	6000	3	9902-544 441	29,25	9902-544 461	23,35	9902-544 471	23,10
150	30	25		31,75	50,8	6000	3	9902-544 442	36,15	9902-544 462	30,70	9902-544 472	30,60
150	30	29		31,75	50,8	6000	3	9902-544 142	29,25	9902-544 162	23,00	9902-544 172	22,90
150	37	29		31,75	50,8	6000	3	9902-544 143	36,15	9902-544 163	30,70	9902-544 173	30,70
178	23	38		31,75	50,8	6000	1	9902-554 441	35,55	9902-554 461	30,20	9902-554 471	30,05
178	32	38		31,75	50,8	6000	1	9902-554 142	35,55	9902-554 162	30,05	9902-554 172	30,05
178	38	38		31,75	50,8	6000	1	9902-554 143	47,35	9902-554 163	41,80	9902-554 173	41,80
200	20	38		31,75	80	4500	1	9902-566 441	45,20	9902-566 461	38,75	9902-566 471	38,45
200	30	38		31,75	80	4500	1	9902-566 142	45,20	9902-566 162	38,45	9902-566 172	38,45
200	38	38		31,75	80	4500	1	9902-566 143	63,95	9902-566 163	57,10	9902-566 173	57,10
250	28	47	20	50,8	100	3600	1	9902-576 142	70,30	9902-576 162	65,70		
250	38	47	20	50,8	100	3600	1	9902-576 143	73,30	9902-576 163	71,45	9902-576 173	71,15
250	55	47	20	50,8	100	3600	1			9902-576 464	96,60	9902-576 474	95,65
300	44	50	25,4	50,8	120	3000	1	9902-587 143	96,55	9902-587 163	82,85		
300	32	50	25,4	50,8	120	3000	1	9902-587 142	83,70	9902-587 162	70,30		

mm								0,50	RRP				
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
150	21	25		31,75	50,8	6000	3	9902-544 491	22,65				
150	30	25		31,75	50,8	6000	3	9902-544 492	30,40				
150	30	29		31,75	50,8	6000	3	9902-544 192	22,55				
150	37	29		31,75	50,8	6000	3	9902-544 193	30,50				
178	23	38		31,75	50,8	6000	1	9902-554 491	29,75				
178	32	38		31,75	50,8	6000	1	9902-554 192	29,75				
178	38	38		31,75	50,8	6000	1	9902-554 193	41,40				
200	20	38		31,75	80	4500	1	9902-566 491	38,25				
200	30	38		31,75	80	4500	1	9902-566 192	38,25				
200	38	38		31,75	80	4500	1	9902-566 193	56,65				
250	28	47	20	50,8	100	3600	1	9902-576 192	65,30				
250	38	47	20	50,8	100	3600	1	9902-576 193	70,65				
300	32	50	25,4	50,8	120	3000	1	9902-587 192	69,90				
300	44	50	25,4	50,8	120	3000	1	9902-587 193	82,55				

mm								0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	19	16		20	20	10000	4	9902-511 342	32,00	9902-511 362	22,80		
100	20	23		20	30	8000	4	9902-522 342	42,15	9902-522 362	37,35		
100	28	23		20	30	8000	4	9902-522 343	52,80	9902-522 363	52,15		
125	22	30		20	30	6000	2	9902-532 342	52,15	9902-532 362	48,10		
125	30	30		20	30	6000	2	9902-532 343	70,00	9902-532 363	66,05		
150	21	25		31,75	50,8	6000	2	9902-544 341	66,75	9902-544 361	64,05		
150	30	25		31,75	50,8	6000	2	9912-544 342	96,80	9912-544 362	91,65		
150	30	29		31,75	50,8	6000	2	9902-544 342	68,95	9902-544 362	65,05		
150	37	29		31,75	50,8	6000	2	9902-544 343	96,80	9902-544 363	85,35		
178	23	38		31,75	50,8	6000	1	9902-554 341	85,65	9902-554 361	79,95		
178	32	38		31,75	50,8	6000	1	9902-554 342	87,65	9902-554 362	81,85		
178	38	38		31,75	50,8	6000	1			9902-554 363	105,00		
200	20	38		31,75	80	4500	1	9902-566 341	103,00	9902-566 361	95,50		
200	30	38		31,75	80	4500	1	9902-566 342	106,00	9902-566 362	97,80		
200	38	38		31,75	80	4500	1	9902-566 343	136,00	9902-566 363	136,00		
250	28	47	20	50,8	100	3600	1	9902-576 342	132,00	9902-576 362	123,00		
250	38	47	20	50,8	100	3600	1	9902-576 343	161,00	9902-576 363	155,00		
300	32	50	25,4	50,8	120	3000	1	9902-587 342	140,00	9902-587 362	143,00		
300	44	50	25,4	50,8	120	3000	1	9902-587 343	205,00	9902-587 363	199,00		



Universal usage of the brushes through a range of bore adapters:

Ø 75-125 mm: 20 mm = 1/2", 5/8" Ø 150-200 mm: 31,75 mm = 13mm; 15mm; 16mm; 19mm; 20 mm; 7/8"; 1".

Important: When ordering brushes Ø 250-300 mm please clearly state your arbor hole requirements.

# Brushes

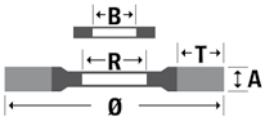
## Stationary machines

### Wheel brushes

#### crimped wire



Flexible, soft wheel brush for fine surface finishing. Conforms to the contours of the work piece thanks to its long bristles.



#### USAGE

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

##### Products available with:

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

mm								0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
150	24	43		20	30	6000	3	<b>9902-543 142</b>	24,30	<b>9902-543 162</b>	21,45		
150	32	43		20	30	6000	3	9902-543 143	34,05	9902-543 163	28,30		
178	32	43		31,75	50,8	6000	1			<b>9902-553 162</b>	25,65		
178	40	43		31,75	50,8	6000	1			9902-553 163	35,35		
200	33	55		31,75	50,8	4500	1	<b>9902-565 142</b>	35,90	<b>9902-565 162</b>	28,45		
200	42	55		31,75	50,8	4500	1	9902-565 143	52,30	<b>9902-565 163</b>	41,25		
250	32	63	20	50,8	80	3600	1	9902-575 142	54,35	9902-575 162	45,35		
250	42	63	20	50,8	80	3600	1	9902-575 143	74,80	<b>9902-575 163</b>	62,90		
300	33	70	25,4	50,8	100	3000	1	9902-586 142	77,00	<b>9902-586 162</b>	64,15		
300	45	70	25,4	50,8	100	3000	1			<b>9902-586 163</b>	82,10		

mm								0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
150	24	43		20	30	6000	2	9902-543 342	66,80	9902-543 362	50,60		
150	32	43		20	30	6000	2	9902-543 343	91,60	9902-543 363	84,50		
178	32	43		31,75	50,8	6000	1	9902-553 342	74,80	9902-553 362	64,35		
178	40	43		31,75	50,8	6000	1	9902-553 343	93,50	9902-553 363	89,45		
200	33	55		31,75	50,8	4500	1	9902-565 342	109,00	<b>9902-565 362</b>	101,00		
200	42	55		31,75	50,8	4500	1	9902-565 343	131,00				
250	32	63	20	50,8	80	3600	1	9902-575 342	126,00	9902-575 362	111,00		
250	42	63	20	50,8	80	3600	1	9902-575 343	138,00				
300	33	70	25,4	50,8	100	3000	1	9902-586 342	137,00	9902-586 362	133,00		
300	45	70	25,4	50,8	100	3000	1	9902-586 343	188,00	9902-586 363	189,00		

mm								0,20	RRP	0,30	RRP		
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
150	24	43		20	30	6000	2	<b>9902-543 542</b>	57,75	9902-543 562	51,10		
150	32	43		20	30	6000	2	9902-543 543	81,85	9902-543 563	76,40		
178	32	43		31,75	50,8	6000	1	9902-553 542	65,70	9902-553 562	60,00		
200	33	55		31,75	50,8	4500	1	<b>9902-565 542</b>	79,75	<b>9902-565 562</b>	71,40		
250	32	63	20	50,8	80	3600	1			9902-575 562	110,00		
250	42	63	20	50,8	80	3600	1			9902-575 563	135,00		
300	33	70	25,4	50,8	100	3000	1	9902-586 542	116,00				
300	45	70	25,4	50,8	100	3000	1	9902-586 543	175,00	9902-586 563	168,00		



Universal usage of the brushes through a range of bore adapters:  
**Ø 75-125 mm:** 20 mm = 1/2"; 5/8" **Ø 150-200 mm:** 31,75 mm = 13mm; 15mm; 16mm; 19mm; 20 mm; 7/8"; 1".  
**Important:** When ordering brushes Ø 250-300 mm please clearly state your arbor hole requirements.



Items available immediately from stock are printed in bold type.  
 Please contact us for other sizes/materials: [service@osborn.de](mailto:service@osborn.de)

# Brushes

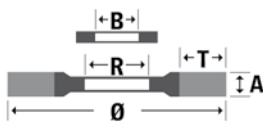
## Stationary machines



### Wheel brushes

crimped wire

Very wide and compact brush for tabletop deburrers for finishing cut edges.



**USAGE**

	0,15	0,20	0,25/0,27	0,30	0,35	0,40	0,50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

Stainless steel →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm							0,20	RRP	0,30	RRP	0,35	RRP
Ø	A	T	B	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
250	55	45	100	100	3600	1	<b>0002-576 145</b>	175,00	<b>0042-576 165</b>	156,00		
250	95	45	82	100	3600	1	3132-703 147	236,00	<b>3162-703 167</b>	193,00		
300	55	50	100	100	2800	1					<b>0002-586 175</b>	213,00
300	95	70	82	100	2800	1					3132-703 178	285,00

For other bore sizes, see Axle discs on page 69.

mm							0,50	RRP				
Ø	A	T	B	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
250	55	45	100	100	3600	1	<b>0002-576 195</b>	144,00				
250	95	45	82	100	3600	1	3232-703 197	189,00				

For other bore sizes, see table "Standard bore for multi-row brushes" on page 62.

mm							0,20	RRP	0,30	RRP		
Ø	A	T	B	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
250	50	45	82	100	3600	1	0022-576 345	324,00				
250	55	45	100	100	3600	1	<b>0002-576 345</b>	327,00	<b>0042-576 365</b>	299,00		
250	95	45	82	100	2800	1	3132-703 347	568,00				

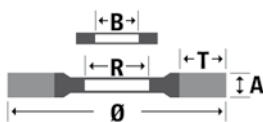
For other bore sizes, see table "Standard bore for multi-row brushes" on page 62.



### Wheel brushes

abrasive filament

Very wide and compact brush for tabletop deburrers for finishing cut edges.



**USAGE**

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

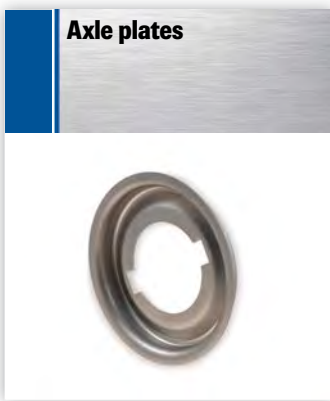
Abrasive bristle →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm							Grit 120	RRP	Grit 180	RRP	Grit 320	RRP
Ø	A	T	B	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
250	55	45	100	100	3600	1	0002-576 906	243,00	<b>0002-576 916</b>	243,00	0002-576 926	243,00

For other bore sizes, see table "Standard bore for multi-row brushes" on page 62.

# Brushes

## Stationary machines



**Axle plates**

One-way axle discs for tabletop deburrers.

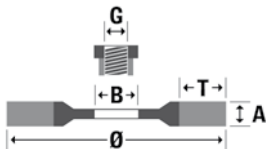
mm						
B	Keyway	pcs.	Order-No.	Order-No.	Order-No.	
50,8	13,2x7,1	1	<b>5495-560 051</b>			
52,9	13,5x6,4	1	<b>5495-560 052</b>			
54,7	13,6x5,8	1	<b>5495-560 054</b>			
80,2	13,5x7,5	1	5495-560 080			
82	13,5x6,4	1	5495-560 082			



**Wheel brushes**  
abrasive filament

**PREMIUM**

Abrasive bristle for wet and dry applications. Resistant to weak acids and alkaline solutions. Flexible, the brush adapts to the work piece. Industrial version.



**USAGE**

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood	

mm									Grit 80	RRP	Grit 120 1,02	RRP	Grit 180	RRP
Ø	A	T	B	Adapt.	min-1	pcs.			Order-No.	€	Order-No.	€	Order-No.	€
75	12	15	5/8"	F	20000	6			<b>9906-015 001</b>	25,90	<b>9906-015 002</b>	25,90	<b>9906-015 003</b>	25,90
100	13	20	5/8"	F	12000	6			<b>9906-015 025</b>	29,30	<b>9906-015 026</b>	29,30	<b>9906-015 027</b>	29,30
125	16	32	5/8"	F	12000	6			<b>9906-015 035</b>	35,25	<b>9906-015 036</b>	35,25	<b>9906-015 037</b>	35,25
150	17	32	7/8"	F	8000	6			<b>9906-015 079</b>	42,70	<b>9906-015 080</b>	42,70	<b>9906-015 081</b>	42,70
178	20	47	7/8"	F	8000	2			<b>9906-015 040</b>	59,60	<b>9906-015 041</b>	59,60	<b>9906-015 042</b>	59,60
200	18	35	2"	4-M	6000	2			<b>9906-015 050</b>	84,70	<b>9906-015 051</b>	84,70	<b>9906-015 052</b>	84,70
250	18	35	2"	4-M	3000	2			9906-015 056	107,00	<b>9906-015 057</b>	107,00	<b>9906-015 058</b>	107,00
250	18	60	2"	4-M	3600	2			9946-015 056	102,00	<b>9946-015 057</b>	102,00	<b>9946-015 058</b>	102,00
300	18	35	2"	4-M	2400	2			<b>9906-015 062</b>	153,00	9906-015 063	153,00	<b>9906-015 064</b>	153,00
300	18	60	2"	4-M	3000	2			9966-015 062	153,00	<b>9966-015 063</b>	153,00	<b>9966-015 064</b>	153,00
350	19	55	2"	4-M	2400	2					9906-015 069	182,00	<b>9906-015 070</b>	182,00

mm									Grit 320	RRP	Grit 120 0,65	RRP		
Ø	A	T	B	Adapt.	min-1	pcs.			Order-No.	€	Order-No.	€	Order-No.	€
75	12	15	5/8"	F	20000	6			<b>9906-015 004</b>	25,90	9916-015 002	24,75		
100	13	20	5/8"	F	12000	6			<b>9906-015 028</b>	29,30	9916-015 026	28,05		
125	16	32	5/8"	F	12000	6			<b>9906-015 038</b>	35,25				
150	17	32	7/8"	F	8000	6			<b>9906-015 082</b>	42,70	9916-015 080	40,85		
178	20	47	7/8"	F	8000	2			<b>9906-015 043</b>	59,60	9916-015 041	57,00		
200	18	35	2"	4-M	6000	2			<b>9906-015 053</b>	84,70	9916-015 051	81,00		
250	18	35	2"	4-M	3000	2			<b>9906-015 059</b>	107,00	9916-015 057	101,00		
250	18	60	2"	4-M	3600	2			9946-015 059	102,00				
300	18	35	2"	4-M	2400	2			<b>9906-015 065</b>	153,00				
300	18	60	2"	4-M	3000	2			<b>9966-015 065</b>	153,00	9976-015 063	153,00		
300	18	32,5	2"	4-M	2400	2					9916-015 063	147,00		
350	19	55	2"	4-M	2400	2			9906-015 071	182,00	9916-015 069	174,00		



# Brushes

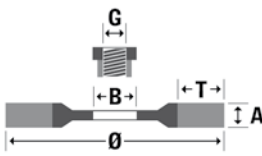
## Stationary machines

### Wheel brushes

#### abrasive filament



Abrasive bristle for dry applications.



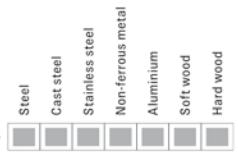
#### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Abrasive bristle →



mm								Grit 80	RRP	Grit 120	RRP	Grit 180	RRP	
Ø	A	T	B min.	B max.	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	13		13			20000	6	9902-515 001	20,85	9902-515 002	20,85	9902-515 003	20,85
100	18	18	13	20			12000	6	9902-515 025	25,00	9902-515 026	25,00	9902-515 027	25,00
150	16	32	13	32	50,8	F	8000	6	9902-515 079	37,00			9902-515 081	37,00
150	18	32	13	32	50,8	F	8000	6			9902-515 080	37,00		
178	20	45	13	32		F	8000	4	9902-515 040	48,90	9902-515 041	48,90	9902-515 042	48,90
200	18	35	19	40	50,8	4-M	6000	2	9902-515 050	69,00	9902-515 051	69,00	9902-515 052	69,00
250	18	35	20	40	50,8	4-M	3600	2			9902-515 057	86,10		
250	18	60	20	40	50,8	4-M	3600	2	9962-515 056	86,50	9962-515 057	86,50	9962-515 058	86,50
250	20	35	20	40	50,8	4-M	3600	2	9902-515 056	86,10			9902-515 058	86,10
300	18	34	20	40	50,8	4-M	3000	2			9902-515 063	125,00		
300	20	34	20	40	50,8	4-M	3600	2	9902-515 062	125,00				
300	20	34	20	40	50,8	4-M	3000	2					9902-515 064	125,00
300	20	60	20	40	50,8	4-M	3000	2	9962-515 062	125,00	9962-515 063	125,00	9962-515 064	125,00
350	20	57	32	40	50,8	4-M	2400	2			9902-515 069	148,00		

For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

mm								Grit 320	RRP					
Ø	A	T	B min.	B max.	B	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	13		13			20000	6	9902-515 004	20,85				
100	18	18	13	20			12000	6	9902-515 028	25,00				
150	18	32	13	32	50,8		8000	6	9902-515 082	37,00				
178	18	45	13	32			8000	4	9902-515 043	48,90				
200	18	35	19	40	50,8	4-M	6000	2	9902-515 053	69,00				
250	18	60	20	40	50,8	4-M	3000	2	9962-515 059	86,50				
250	20	35	20	40	50,8	4-M	3600	2	9902-515 059	86,10				
300	20	34	20	40	50,8	4-M	3000	2	9902-515 065	125,00				
300	20	60	20	40	50,8	4-M	3000	2	9962-515 065	125,00				
350	18	57	32	40	50,8	4-M	2400	2	9902-515 071	148,00				

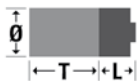
For other bore sizes, see table "Standard bore for single-row brushes" on page 62.

### End brushes

#### gewellter Draht



To deburr the raw edge of tubes/profiles or flat surfaces. A set (8,16,24pcs) are fitted in a brush head.



#### USAGE

	80	120	120 Mix	180	0,20	0,27	0,35	0,50
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

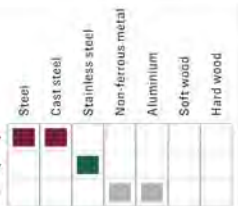
#### TRIM AND MATERIAL

Products available with:

Steel wire straight →

Stainless steel →

Abrasive bristle →



mm				0,20	RRP	0,35	RRP	0,50	RRP
Ø	T	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	95	25	16	0002-509 448	9,50	0002-509 478	8,90	0002-509 498	8,30

mm				0,20	RRP	Grit 120	RRP	Grit 120 Mix 0,20stainless	RRP
Ø	T	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	95	25	16	0002-509 348	16,55	0002-509 928	10,50	5702-509 938	12,60

mm				Grit 80	RRP	Grit 180	RRP		
Ø	T	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	95	25	16	0002-509 908	10,50	0002-509 988	10,50		



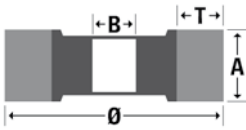
# Brushes

## Stationary machines

### Brushes for wood graining



For brushing grain and annual growth rings using hand-held and stationary machines.



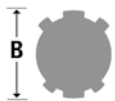
		mm				<b>0,17 Rusticord</b>	RRP	<b>0,20 Rusticord</b>	RRP	<b>80 Rustifil</b>	RRP
Ø	A	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
100	100	16	4000	1	3142-703 032	119,00					
150	80	16	4000	1					0142-703 914	286,00	
150	80	16/30	4000	1					1632-703 914	286,00	
150	85	16	4000	1			0142-703 044	171,00	3242-703 915	286,00	
150	85	16/30	4000	1			1632-703 044	171,00	1632-703 915	302,00	
150	120	16	4000	1			0262-713 044	210,00	2852-713 915	388,00	
150	120	30	4000	1			2102-713 044	229,00	2152-713 915	388,00	
150	140	30	4000	1			<b>0362-713 044</b>	239,00	2552-713 915	413,00	

		mm				<b>0,15 Fibre/Phos.</b>	RRP				
Ø	A	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
150	120	30	4000	1	3242-713 904	630,00					
150	140	30	4000	1	3142-713 904	659,00					

### 4-M adapter



4-M adapter for thin wheel brushes with bore 2" (50.8 mm) tapered grooves; reusable.

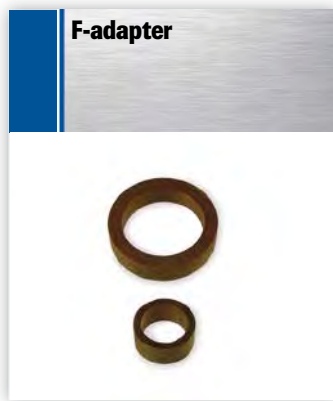


Turtle-bore

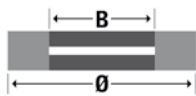
		mm			RRP					
B	inch	pcs.	Order-No.	€	Order-No.	€	Order-No.	€		
12,7	1/2"	1	<b>0003-075 064</b>	8,60						
15,9	5/8"	1	<b>0003-075 065</b>	8,60						
19	3/4"	1	<b>0003-075 066</b>	8,60						
22,2	7/8"	1	<b>0003-075 067</b>	8,60						
25,4	1"	1	<b>0003-075 068</b>	8,60						
28	1 1/8"	1	0003-075 069	8,60						
28	1 1/4"	1	<b>0003-075 070</b>	8,60						
38	1 1/2"	1	0003-075 071	8,60						
44,5	1 3/4"	1	0003-075 072	8,60						
50,8	2"	1	0003-075 073	8,60						

# Brushes

## Stationary machines



For reduction of arbor holes.



inch			RRP					
Inner Ø	Outer Ø	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
1/2"	5/8"	1	0003-000 223	0,90				
3/8"	7/8"	1	0003-000 242	0,90				
7/8"	1/2"	1	0003-000 243	0,90				
7/8"	5/8"	1	0003-000 244	1,55				



Interchangeable metal adapters for wheel brushes.

inch			Inner Ø 2"	RRP	Outer Ø 1 1/4"	RRP		
B	pcs.		1-A	€	3-A	€	Order-No.	€
1/4"	1				0103-075 046	1,50		
3/8"	1		0103-075 020	1,95	0103-075 047	1,50		
1/2"	1		0103-075 021	2,00	0103-075 048	1,50		
5/8"	1		0103-075 022	2,00	0103-075 049	1,50		
3/4"	1		0103-075 023	2,00	0103-075 050	1,50		
7/8"	1		0103-075 024	2,00	0103-075 051	1,50		
1"	1		0103-075 025	2,00	0103-075 052	1,50		
1/8"	1		0103-075 026	2,00				
1 1/4"	1		0103-075 027	2,50				
1 1/2"	1		0103-075 028	2,00				

mm			Inner Ø 2"	RRP	Outer Ø 1 1/4"	RRP		
B	pcs.		1-A	€	3-A	€	Order-No.	€
10	1		0103-075 210	2,00	0103-075 310	1,45		
12	1		0103-075 212	2,00	0103-075 312	1,40		
13	1		0103-075 213	2,00	0103-075 313	1,50		
15	1				0103-075 315	1,40		
16	1		0103-075 216	2,00	0103-075 316	1,50		
17	1		0103-075 217	2,00				
20	1		0103-075 220	2,50	0103-075 320	1,50		
25	1		0103-075 225	3,35	0103-075 325	1,50		
30	1		0103-075 230	2,00				
32	1		0103-075 232	2,00				
35	1		0103-075 235	2,00				
40	1		0103-075 240	2,00				

**HAND BRUSHES AND BROOMS**



# BRUSHES

## Hand brushes



### Important user information

#### Brushes for manual use/hand brushes



To be noted when selecting brushes and using manual hand brushes:

#### 1. General user information

Our hand brushes are suitable for all manual work such as deburring, cleaning, rust or paint removal. We also have brushes for various kinds of painting and decorating.

#### 2. Typical brush types for manual use



##### Hand brushes

Available in brushes with wooden or plastic bodies, and block brushes.



##### Brooms

Available with wire or nylon trim, plus floor and scrubbing brushes.



##### Bristles

Available with flat, round and special bristles.



##### Accessories

We also have a selection of useful accessories.







# Brushes

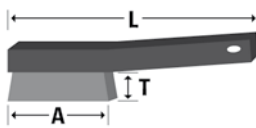
## Hand brushes

### Hand scratch brushes

plastic handle



With anti-slip handle. Ideal shape to clean brake arches.



#### USAGE

	<input type="checkbox"/>	wire crimped/smooth
	<input type="checkbox"/>	brass
	<input type="checkbox"/>	flat wire
	<input type="checkbox"/>	scratch strip
	<input type="checkbox"/>	Nylon/PVC
	<input type="checkbox"/>	natural bristle
	<input type="checkbox"/>	phosphorbronze
descaling/paint stripping	<input type="checkbox"/>	
weld seams	<input type="checkbox"/>	
etching	<input type="checkbox"/>	
brushing/dust removal	<input type="checkbox"/>	
painting	<input type="checkbox"/>	
light cleaning work	<input type="checkbox"/>	

#### TRIM AND MATERIAL

Products available with:

Steel wire	<input checked="" type="checkbox"/>	Steel	<input checked="" type="checkbox"/>	Cast steel	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>	Non-ferrous metal	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Soft wood	<input type="checkbox"/>	Hard wood
Stainless steel	<input checked="" type="checkbox"/>													
Brass wire	<input type="checkbox"/>													

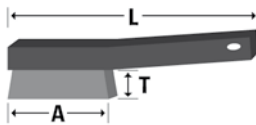
mm					0,35 Straight	RRP	0,30 Straight	RRP	0,20 Crimped	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
110	23	270	2	5	0001-432 602	4,90	0001-432 612	9,70	0001-432 622	9,25
110	23	270	3	5	0001-432 603	5,85	0001-432 613	11,05	0001-432 623	10,35
110	23	270	4	5	0001-432 604	6,75	0001-432 614	13,00	0001-432 624	11,85
110	23	270	5	5	0001-432 605	7,60	0001-432 615	13,90	0001-432 625	12,50

### Hand scratch brushes

plastic handle



With anti-slip handle. Ideal shape to clean brake arches.



#### USAGE

	<input type="checkbox"/>	wire crimped/smooth
	<input type="checkbox"/>	brass
	<input type="checkbox"/>	flat wire
	<input type="checkbox"/>	scratch strip
	<input type="checkbox"/>	Nylon/PVC
	<input type="checkbox"/>	natural bristle
	<input type="checkbox"/>	phosphorbronze
descaling/paint stripping	<input type="checkbox"/>	
weld seams	<input type="checkbox"/>	
etching	<input type="checkbox"/>	
brushing/dust removal	<input type="checkbox"/>	
painting	<input type="checkbox"/>	
light cleaning work	<input type="checkbox"/>	

#### TRIM AND MATERIAL

Products available with:

Steel wire	<input checked="" type="checkbox"/>	Steel	<input checked="" type="checkbox"/>	Cast steel	<input type="checkbox"/>	Stainless steel	<input type="checkbox"/>	Non-ferrous metal	<input type="checkbox"/>	Aluminium	<input type="checkbox"/>	Soft wood	<input type="checkbox"/>	Hard wood
Brass wire	<input type="checkbox"/>													

mm					0,35 Straight	RRP	0,30 Crimped	RRP	0,30 Crimped	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
95	23	245	2	10	3301-462 122	6,25	3301-462 162	6,25	3301-462 562	8,80



# Brushes

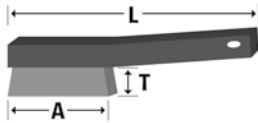
## Hand brushes

### Hand scratch brushes

wooden handle



Perfect brush shape for hollow welds.



#### USAGE

	<input type="checkbox"/>	wire crimped/smooth
	<input type="checkbox"/>	brass
	<input type="checkbox"/>	flat wire
	<input type="checkbox"/>	scratch strip
	<input type="checkbox"/>	Nylon/PVC
	<input type="checkbox"/>	natural bristle
	<input type="checkbox"/>	phosphorbronze
descaling/paint stripping	<input checked="" type="checkbox"/>	
weld seams	<input checked="" type="checkbox"/>	
etching	<input type="checkbox"/>	
brushing/dust removal	<input type="checkbox"/>	
painting	<input type="checkbox"/>	
light cleaning work	<input type="checkbox"/>	

#### TRIM AND MATERIAL

Products available with:

Steel wire →

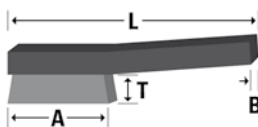
Stainless steel →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm					0,35 Straight	RRP	0,30 Straight	RRP		
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
145	35	295	3	12	0003-162 133	7,30	0003-162 333	14,30		

### Fine scratch brush

wooden handle



#### USAGE

	<input type="checkbox"/>	wire crimped/smooth
	<input type="checkbox"/>	brass
	<input type="checkbox"/>	flat wire
	<input type="checkbox"/>	scratch strip
	<input type="checkbox"/>	Nylon/PVC
	<input type="checkbox"/>	natural bristle
	<input type="checkbox"/>	phosphorbronze
descaling/paint stripping	<input checked="" type="checkbox"/>	
weld seams	<input checked="" type="checkbox"/>	
etching	<input type="checkbox"/>	
brushing/dust removal	<input type="checkbox"/>	
painting	<input type="checkbox"/>	
light cleaning work	<input type="checkbox"/>	

#### TRIM AND MATERIAL

Products available with:

Brass wire →

Natural bristle →

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

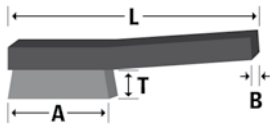
mm					0,20 Crimped	RRP	Horsehair	RRP		
A	T	L	Rows	B	Order-No.	€	Order-No.	€	Order-No.	€
105	18	220	4	22	0003-165 584	4,70	0003-165 964	4,20		

# Brushes

## Hand brushes

### Spark plug brushes.

wooden handle



#### USAGE

	wire crimped/smooth	<input type="checkbox"/>
	brass	<input type="checkbox"/>
	flat wire	<input type="checkbox"/>
	scratch strip	<input type="checkbox"/>
	Nylon/PVC	<input type="checkbox"/>
	natural bristle	<input type="checkbox"/>
	phosphorbronze	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>
etching	<input type="checkbox"/>	<input type="checkbox"/>
brushing/dust removal	<input type="checkbox"/>	<input type="checkbox"/>
painting	<input type="checkbox"/>	<input type="checkbox"/>
light cleaning work	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Stainless steel

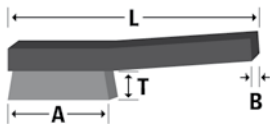
Brass wire

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

mm							0,20 Crimped	RRP	0,20 Crimped	RRP
A	T	L	Rows	B	pcs.		Order-No.	€	Order-No.	€
45	18	200	3	18	24		<b>2103-133 373</b>	2,25		
45	18	189	3	18	24				<b>0003-133 573</b>	2,25

### Spark plug brushes

plastic handle



#### USAGE

	wire crimped/smooth	<input type="checkbox"/>
	brass	<input type="checkbox"/>
	flat wire	<input type="checkbox"/>
	scratch strip	<input type="checkbox"/>
	Nylon/PVC	<input type="checkbox"/>
	natural bristle	<input type="checkbox"/>
	phosphorbronze	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>
etching	<input type="checkbox"/>	<input type="checkbox"/>
brushing/dust removal	<input type="checkbox"/>	<input type="checkbox"/>
painting	<input type="checkbox"/>	<input type="checkbox"/>
light cleaning work	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Stainless steel

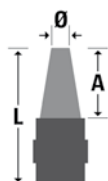
Brass wire

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

mm							0,20 Crimped	RRP	0,20 Crimped	RRP
A	T	L	Rows	pcs.			Order-No.	€	Order-No.	€
33	15	180	3	24					<b>0023-133 373</b>	5,10
33	15	180	3	48			<b>0008-432 573</b>	1,65		

### Battery terminal brush

steel wire



To clean batteries (pole and clamp cleaning).

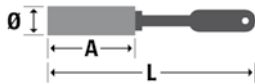
mm					Steel wire Crimped	RRP
Ø	T	L	pcs.		Order-No.	€
15/ 25	65	120	12		<b>0008-493 100</b>	9,55

# Brushes

## Hand brushes



To clean the inside of tubes and solder fittings made of copper or red brass.



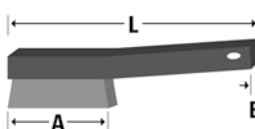
mm				0,12 Steel wire	RRP	0,20 Steel wire	RRP	0,26 Steel wire	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	25	160	12	0003-075 250	5,85				
10	25	160	12	0003-075 251	5,95				
13	25	160	12			0003-075 252	6,00		
16	25	160	12			0003-075 253	6,00		
19	28	160	12			0003-075 254	6,05		
23	25	160	12			0003-075 255	6,05		
26	25	160	12			0003-075 256	6,25		
29	32	160	12					0003-075 257	6,35
33	35	160	12					0003-075 258	6,50
43	38	160	6					0003-075 259	6,60
56	45	160	6					0003-075 260	6,80



To clean the inside of steel, wood or plastic products. To remove chippings and loose particles.



mm				0,15	RRP	0,20	RRP	0,30	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
15	100	280	10	0002-892 215	9,25				
20	100	280	10			0002-892 220	9,55		
25	100	280	10					0002-892 225	9,75
30	100	280	10					0002-892 230	10,10



**USAGE**

descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
etching	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
brushing/dust removal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
painting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
light cleaning work	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

wire crimped/smooth  
 brass  
 flat wire  
 scratch strip  
 Nylon/PVC  
 natural bristle  
 phosphorbronze

**TRIM AND MATERIAL**

Products available with:

Steel wire →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm				Straight	RRP				
A	L	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	235	25	12	0003-140 101	2,50				
115	235	40	12	0003-140 102	3,40				
115	265	50	12	0003-140 104	4,70				
127	260	12	12	3303-140 101	4,75				

**NEW!**



# Brushes

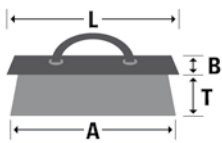
## Hand brushes

### Butchersbrush

#### wooden handle



Wood body with plastic handle.



#### USAGE

	wire crimped/smooth	<input type="checkbox"/>
	brass	<input type="checkbox"/>
	flat wire	<input type="checkbox"/>
	scratch strip	<input type="checkbox"/>
	Nylon/PVC	<input type="checkbox"/>
	natural bristle	<input type="checkbox"/>
	phosphorbronze	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input type="checkbox"/>
etching	<input type="checkbox"/>	<input type="checkbox"/>
brushing/dust removal	<input type="checkbox"/>	<input type="checkbox"/>
painting	<input type="checkbox"/>	<input type="checkbox"/>
light cleaning work	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm						0,35 Straight	RRP	0,35 Straight	RRP		
A	T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
190	40	205	60	5	10	<b>0281-307 095</b>	8,15	<b>7601-306 095</b>	6,70		

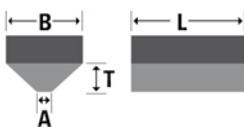
\* with board

### Weed Brush

#### wooden body



Brush with v-shaped wire-configuration. Removal of moss and weeds on pavements and cobbled zones. With and without bore for handle.



mm						0,35	RRP	0,35	RRP		
A	T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
4	38	100	35	3	25	<b>0001-261 173</b>	4,50	<b>0011-261 173</b>	4,35		

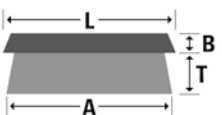
\* with bore 24 mm.

### Butchersbrush

#### wooden handle



Violin shape.



#### USAGE

	wire crimped/smooth	<input type="checkbox"/>
	brass	<input type="checkbox"/>
	flat wire	<input type="checkbox"/>
	scratch strip	<input type="checkbox"/>
	Nylon/PVC	<input type="checkbox"/>
	natural bristle	<input type="checkbox"/>
	phosphorbronze	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input type="checkbox"/>
etching	<input type="checkbox"/>	<input type="checkbox"/>
brushing/dust removal	<input type="checkbox"/>	<input type="checkbox"/>
painting	<input type="checkbox"/>	<input type="checkbox"/>
light cleaning work	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

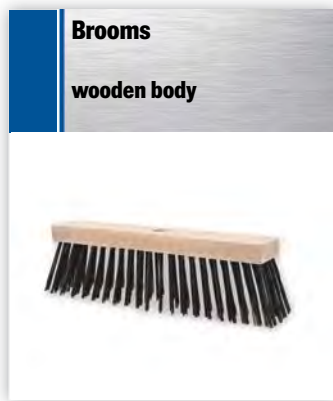
Steel wire →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood  
Stainless steel →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm						0,35 Straight	RRP	0,35 Straight	RRP	0,30 Straight	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
170	35	210	5	10	<b>0001-179 397</b>	10,00	<b>0001-179 097</b>	3,05	<b>0001-179 297</b>	3,05	

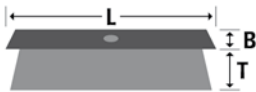
mm						Flat wire 1,2x0,25	RRP				
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
150	35	190		10	<b>0023-179 197</b>	6,00					


# Brushes

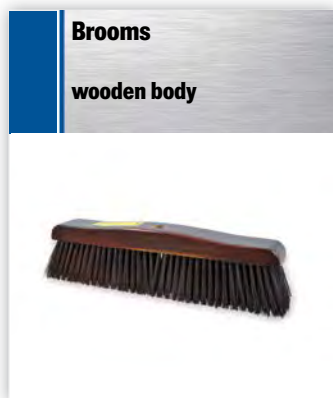
## Hand brushes



Type with flat wire.



mm						0,75 x 0,25	RRP	1,20 x 0,25	RRP	0,50	RRP
T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
75	300	60	5	10					<b>0001-102 095</b>	9,55	
75	300	60	6	10	<b>0001-102 006</b>	10,05	<b>0001-102 016</b>	12,65			



Type with Korfil-D to clean very dirty workshop floors.



mm						Korfil-D	RRP				
T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
75	400	60	6	1	<b>0001-104 924</b>	25,65					
75	700	70	7	1	9711-104 925	53,00					

\* wooden body coated

# Brushes

## Hand brushes

### Handle holders

#### metal



For workshop brooms. Order no. 9711-104 925.

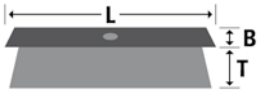
		RRP					
pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
1	<b>0003-000 001</b>	13,25					

### Brooms

#### wooden body



With handle holder, diameter 28 mm.



mm				Cocos		RRP	Elaston Red		RRP	
T	L	Rows	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	320		66	5			<b>0004-102 925</b>	8,30		
75	400		55	5			0003-101 940	9,65		
80	290	20	55	20	<b>0003-102 950</b>	3,15				
80	600	6	55	6	<b>0003-102 990</b>	12,75	<b>0003-102 960</b>	16,00		
80	800	6	55	6	<b>0003-102 980</b>	18,75				

### Brooms

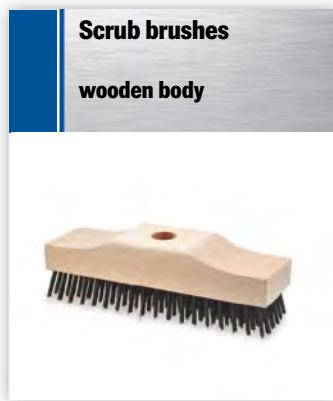
#### wooden body



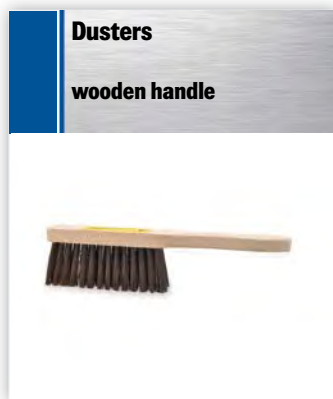
mm				Piassava		RRP				
T	L	Rows	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
260	140	3	45	10	0003-102 920	5,20				

# Brushes

## Hand brushes



mm					pcs.	Straight	RRP	Brass Crimped	RRP		
T	L	B	Rows			Order-No.	€	Order-No.	€	Order-No.	€
30	210	60	6		10	0001-122 096	7,20	0001-122 596	13,00		
40	210	60	7		10	0001-120 097	7,75				



mm						pcs.	Steel wire Straight	RRP	Korfil-D	RRP	Cocos	RRP
A	T	L	B	Rows			Order-No.	€	Order-No.	€	Order-No.	€
150	60	310	35	4		10	0001-110 114	6,60	0181-110 924	8,40	0003-102 924	3,35

# Brushes

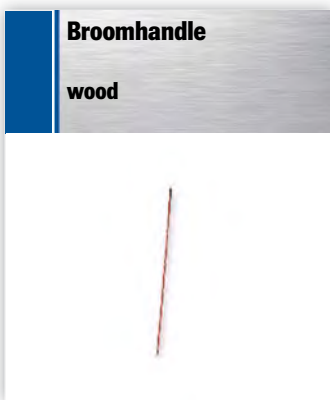
## Hand brushes



		Steel	RRP				
		Order-No.	€	Order-No.	€	Order-No.	€
pcs.	1	<b>0003-104 030</b>	6,70				



		mm		Rubber Black	RRP				
		L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
		600	12	<b>0003-106 760</b>	6,00				



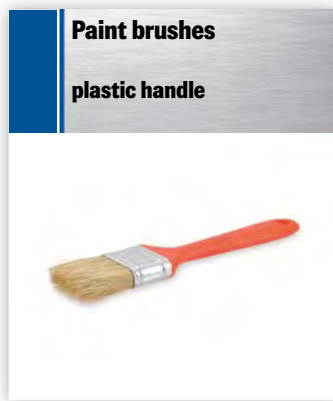
		mm			Wood	RRP	Wood Pine	RRP		
		Ø	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
		28	1400	5	<b>0003-999 027</b>	4,90				
		24	1300	5	<b>0003-000 024</b>	4,10	<b>0003-999 026 *</b>	4,10		

\* with screw



# Brushes

## Hand brushes

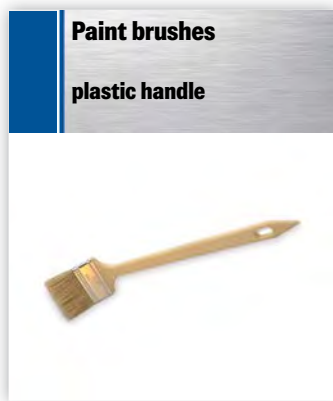


Paint brushes

plastic handle



mm				Light Bristle	RRP				
T	B	Thickness	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
40	20	9	12	<b>0003-086 102</b>	1,15				
40	30	9	12	<b>0003-086 103</b>	1,35				
40	40	9	12	<b>0003-086 104</b>	1,50				
43	50	9	12	<b>0003-086 105</b>	1,85				
43	60	10	12	<b>0003-086 106</b>	2,05				



Paint brushes

plastic handle




mm				Light Bristle	RRP					
T	B	Thickness	inch	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
42	25		1"	12	1003-086 425	2,30				
42	38		1 1/2"	12	<b>1003-086 438</b>	2,45				
42	50,8		2"	12	<b>1003-086 450</b>	2,60				

Heating element brush.

# Brushes

## Hand brushes



mm				 pcs.	Light Bristle	RRP				
T	B				Order-No.	€	Order-No.	€	Order-No.	€
40	13			12	<b>1003-086 206</b>	1,15				
40	16			12	<b>1003-086 208</b>	1,25				
45	20			12	<b>1003-086 210</b>	1,50				
45	23			12	<b>1003-086 212</b>	1,75				
50	26			12	<b>1003-086 214</b>	1,90				
50	30			12	<b>1003-086 216</b>	2,30				

# POLISHING/SATINISING

## Introduction & technical information

# PRODUCT INTRODUCTION POLISHING/SATINISING

### Fine surface finishing for every application.

Professional surface finishing encompasses a complex and broad spectrum of different mechanical finishing processes in which polishing and satinising play a key role.

As a specialist in surface fine machining, Osborn offers a large selection of high-performance tools for all applications associated with polishing and satinising. We have organised our polishing and satinising products in such a way to suit the type of machine used.

### The three key techniques for achieving the perfect surface finish:

there are 3 techniques for producing the desired surface finish.

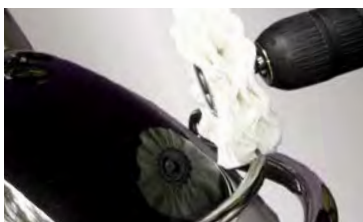
## 1. Polishing (power tools)

Polishing is intended to **create perfect high-gloss surfaces** and can be performed using a variety of power tools.

Generally, 3 steps are needed:

- **cutting**
- **polishing**
- **colouring**

➔ Detailed information on polishing can be found on the following pages.



We recommend a combination of different quality polishing cloths and polishing compounds. Please note that polishing compound is a must for polishing.

➔ Suitable compounds are listed on the first page of the section.

## 2. Satinising (power tools)

Unlike polishing, satinising does not create a high-gloss surface. It **gives a matt look**, whose surface structure varies depending on the substrate used.

A satinised finish can be created using wet and dry techniques.

➔ Detailed information on satinising can be found on the following pages.



Satinising is usually a 1-stage process. No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.

## 3. Polishes & compounds

Our compounds supplement our range of surface-polishing tools. The **polishing compounds can be used for manual or machine polishing** and cover the entire range of surface finishing, from grinding and brushing to cutting and colouring.

➔ Detailed information on polishing compounds can be found on the following pages.



Steel, stainless steel, non-ferrous metals, wood, glass, paint and many other surfaces can be finished when combined with the appropriate polishing tool.

# **POLISHING/SATINISING**

## **Angle polishers/satinisers**

**POLISHING/SATINISING**  
**USING ANGLE POLISHERS AND SATINISERS**



# POLISHING/SATINISING

## Introduction & technical information

# PERFECT SATINISING

Watch the video on YouTube:  
[www.youtube.com/osbornsolutions](http://www.youtube.com/osbornsolutions)



Satinising is a one-stage system for creating flat surfaces. The main considerations when selecting the polishing buff are the surface characteristics and the appearance after finishing.

There are three possible finish grades when satinising a surface.

**Coarse brush stroke**



**Medium brush stroke**



**Fine brush stroke**



## Important note

**Non-woven abrasive tools are used without polishing compound because the abrasive particles are already embedded in the base material of the satiniser.**

These tools made of matted material containing abrasive particles are characterised by an open and flexible structure. They are self-sharpening and can be used in wet and dry applications.

Because they can also be used with hand-held tools, they are ideal for a wide range of applications, from satinising to deoxydising to superfine grinding.


**Our non-woven abrasive tools are available in different grades and sizes, depending on their purpose.**

➡ Details can be found in the product tool bars.



## Finding the right tool

Please check your product choice using the information in the info heading. This will tell you the machine for each product and its suitability, as well as providing a summary of the available carrier material grades (grits) suitable for the material being finished.

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# PERFECT POLISHING

Watch the video on YouTube:  
[www.youtube.com/osbornesolutions](http://www.youtube.com/osbornesolutions)



### Maximum 3 steps for perfect high-gloss surfaces:

**1. Cutting** follows surface grinding and removes material. For this reason, cutting is not suitable for soft metals. Working with a sisal cloth ring smoothes out unevenness, removes striae and scratches, and prepares rough and uncoated surfaces for polishing.

**2. High-quality polishing** removes traces of cutting and further smoothes the surface. The best results can be achieved using our specially developed NOTIFLEX® polishing cloth (outstanding results without unattractive bias stitching where reduced amounts of compound are used). Numerous high quality non-fraying cloth polishing buffs with extended service life are available.

**3. Colouring** calls for minimal pressure and short finishing times. Again various polishing buffs are available.

### Which combination for which result?

The following summary will help you find the best combination of polishing compound and polishing tools needed for each step in finishing each material.

➔ The short version can be found in the info area for each product.

#### Key to the materials below.

- |                         |                     |
|-------------------------|---------------------|
| 1 =  Sisal cloth        | 6 =  Compound, blue |
| 2 =  Notiflex (NTF) 914 | 7 =  Felt, 2-stage  |
| 3 =  Notiflex (NTF) 925 | 8 =  Cloth 101      |
| 4 =  Compound, white    | 9 =  Cloth 290      |
| 5 =  Compound, brown    | 10 =  Felt, 3-stage |

### 3 STEPS

#### Polishing as a 3-step process

System using top-quality, patented Notiflex mat without bias stitching. Suitable for all machines, diameters and bores.

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Cutting</b> For removing defects and scratches, belt sanding > 280 grit or sisal lines.		1 or 10	1 or 10	1 or 10	starting with step polishing	
		4	4	5		
<b>2. Polishing</b> Removing traces of cutting and blending the surface. Important for achieving a flat, high-gloss surface in the next step.		2 or 10	2 or 10	2 or 10	2 or 10	2 or 10
		4	4	5	5	5
<b>3. Colouring</b> For high-gloss surfaces.		3 or 10	3 or 10	3 or 10	3 or 10	3 or 10
		6	6	6	6	6

### 2 STEPS

#### Polishing as a 2-step process

Suitable for applications where no cutting is needed. **Please note:** there is a special summary of polishing buffs and compounds for the 2-step method using a satiniser.

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Polishing</b> Level the surface. Important for achieving a flat, high-gloss surface in the next step.		7	7	7	7	7
		4	4	5	5	5
<b>2. Colouring</b> For high-gloss surfaces.		8	8	8	8	8
		6	6	6	6	6

### 1 STEP

#### Polishing as a 1-step process

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Polishing and Finishing</b> For low-gloss effects (not high gloss)		9	9	9	9	9
		4	4	5	5	5

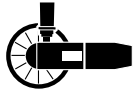
# POLISHING/SATINISING

## Angle polishers/satinisers



### Important user information

#### Polishing/satinising with angle polisher and satiniser



To be noted when selecting a tool and using angle polishers:

#### 1. General user information

Using our tapered shank, the polishing and satinising buffs can be fitted to all common angle polishers with an **M14 mating thread**. Depending on the desired working width, more rings can be added up to a **width of 50 mm**.

The recommended operating speed is  $\leq 3,000$  rpm for 150 mm diameter tools.



To be noted when selecting a tool and using satinisers:

#### 1. General user information

The ideal accessories for satinisers in our polishing and satinising range include polishing buffs and non-woven cloths with **bores of 19/6** and keyways, suitable for all common arbors for satinisers.

By adding more rings, **working widths up to 100 mm** can be achieved, making it very easy to polish or satinise large areas to a high gloss.

The recommended operating speed is  $\leq 4,000$  rpm for 100 mm diameter tools.

### Polishing compounds and the role they play in the finishing process

Polishing compounds are essential for all polishing jobs because they contain the abrasive particles needed to achieve a particular surface finish. It is also important to select the correct polishing compound for the desired surface finish.

Please check your product choice using the information in the info heading. It provides an overview of the compounds available and their suitability for particular finishing steps.

More on finding the right compound for your application can be found in the technical information on the first page of "Satinising".



**USE**

white (cutting)	<input checked="" type="checkbox"/>
white (polishing)	<input checked="" type="checkbox"/>
brown (cutting)	<input type="checkbox"/>
brown (polishing)	<input type="checkbox"/>
blue (colouring)	<input checked="" type="checkbox"/>

Steel	<input checked="" type="checkbox"/>
Stainless steel	<input checked="" type="checkbox"/>
Aluminium	<input type="checkbox"/>
Brass	<input type="checkbox"/>
Copper	<input type="checkbox"/>

		4 white		5 brown		6 blue	
g	pcs.	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €
110	15	2103005333	2.30	2103007012	2.70	2103000461	2.45
700	8	8103005333	9.25	8103007012	12.00	8103000462	9.40



**Important note:**  
No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.

# POLISHING/SATINISING

## Angle polishers/satinisers



**Polishing Buff**  
Cloth/fleece

**USE**

1. Cutting  
2. Polishing  
3. Colouring

Felt, 2-stage, 7  
Felt, 3-stage, 10  
Cloth 250, 9  
Cloth 101, 8  
Sisal cloth, 1  
Sisal cloth, 2  
NTF925, 3

**TRIM AND MATERIAL**

Product available with:

	Steel	Stainless steel	Brass	Copper	Aluminium
Cutting	1 4	1 4	1 4	starting with step polishing	
Polishing	2 4	2 4	2 4	2 4	2 4
Colouring	3 6	3 6	3 6	3 6	3 6

mm	mm	mm	rpm	pcs.	1 Sisal cloth Order no.	RRP €	2 NTF914 Order no.	RRP €	3 NTF925 Order no.	RRP €
150	17	14	3000	10	8203150944	15.95				
150	15	14	3000	5*			8203150914	20.45		
150	10	14	3000	5*					8203150925	16.20

Material is fixed in a toothed metal ring. The polishing buff is clamped using conical spring washers.

\* Here, 5 pcs. correspond to 10 buffs, because our Notiflex buffs are supplied in 2-buff sets.



**Satinising Buff**  
Non woven abrasive

**USE**

coarse  
medium  
fine  
superfine

Satinising  
Deoxidising  
Light grinding  
Light deburring  
Blending  
Fine grinding

**TRIM AND MATERIAL**

Product available with:

	Steel	Stainless steel	Aluminium	Brass	Copper
coarse					
medium					
fine					

mm	mm	mm	rpm	pcs.	coarse Order no.	RRP €	medium Order no.	RRP €	fine Order no.	RRP €
150	25	14	3000	10	8203150934	11.60				
150	30	14	3000	10			8203150936	14.00	8203150947	15.25

Material is fixed in a toothed metal ring. The satiniser buff is clamped using conical spring washers.



**Tapered Shank**

**USE**

mm	mm	mm	pcs.	Order no.	RRP €
15-30	M14	8	8	1203300003	18.55
15-50	M14	8	8	1213300003	20.05

Conical shaft for angle polisher for tensioning polishing and satinising buffs with bores from 14 mm to 150 mm dia.



# **POLISHING/SATINISING**

## **Angle grinders/power drills**

**POLISHING/SATINISING**  
**USING ANGLE GRINDERS AND POWER DRILLS**





# POLISHING/SATINISING

## Introduction & technical information

# PERFECT SATINISING

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Satinising is a one-stage system for creating flat surfaces. The main considerations when selecting the polishing buff are the surface characteristics and the appearance after finishing.

There are three possible finish grades when satinising a surface.

**Coarse brush stroke**



**Medium brush stroke**



**Fine brush stroke**



## Important note

**Non-woven abrasive tools are used without polishing compound because the abrasive particles are already embedded in the base material of the satiniser.**

These tools made of matted material containing abrasive particles are characterised by an open and flexible structure. They are self-sharpening and can be used in wet and dry applications.

Because they can also be used with hand-held tools, they are ideal for a wide range of applications, from satinising to deoxydising to superfine grinding.


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➡ Details can be found in the product tool bars.



## Finding the right tool

Please check your product choice using the information in the info heading. This will tell you the machine for each product and its suitability, as well as providing a summary of the available carrier material grades (grits) suitable for the material being finished.

	USE	TRIM AND MATERIAL																																																																																															
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# PERFECT POLISHING

Watch the video on YouTube:  
[www.youtube.com/osbornolutions](http://www.youtube.com/osbornolutions)



### Maximum 3 steps for perfect high-gloss surfaces:

**1. Cutting** follows surface grinding and removes material. For this reason, cutting is not suitable for soft metals. Working with a sisal cloth ring smoothes out unevenness, removes striae and scratches, and prepares rough and uncoated surfaces for polishing.

**2. High-quality polishing** removes traces of cutting and further smoothes the surface. The best results can be achieved using our specially developed NOTIFLEX® polishing cloth (outstanding results without unattractive bias stitching where reduced amounts of compound are used). Numerous high quality non-fraying cloth polishing buffs with extended service life are available.

**3. Colouring** calls for minimal pressure and short finishing times. Again various polishing buffs are available.

### Which combination for which result?

The following summary will help you find the best combination of polishing compound and polishing tools needed for each step in finishing each material.

➔ The short version can be found in the info area for each product.

#### Key to the materials below.

- |                         |                     |
|-------------------------|---------------------|
| 1 =  Sisal cloth        | 6 =  Compound, blue |
| 2 =  Notiflex (NTF) 914 | 7 =  Felt, 2-stage  |
| 3 =  Notiflex (NTF) 925 | 8 =  Cloth 101      |
| 4 =  Compound, white    | 9 =  Cloth 290      |
| 5 =  Compound, brown    | 10 =  Felt, 3-stage |

STEPS	Process	Description	Icon	Material					
				Steel	Stainless steel	Aluminium	Brass	Copper	
3 STEPS	<b>Polishing as a 3-step process</b>	System using top-quality, patented Notiflex mat without bias stitching. Suitable for all machines, diameters and bores.							
	<b>1. Cutting</b>	For removing defects and scratches, belt sanding > 280 grit or sisal lines.		1 or 10 4	1 or 10 4	1 or 10 5	starting with step polishing		
	<b>2. Polishing</b>	Removing traces of cutting and blending the surface. Important for achieving a flat, high-gloss surface in the next step.		2 or 10 4	2 or 10 4	2 or 10 5	2 or 10 5	2 or 10 5	
	<b>3. Colouring</b>	For high-gloss surfaces.		3 or 10 6	3 or 10 6	3 or 10 6	3 or 10 6	3 or 10 6	
2 STEPS	<b>Polishing as a 2-step process</b>	Suitable for applications where no cutting is needed. <b>Please note:</b> there is a special summary of polishing buffs and compounds for the 2-step method using a satiniser.							
	<b>1. Polishing</b>	Level the surface. Important for achieving a flat, high-gloss surface in the next step.		7 4	7 4	7 5	7 5	7 5	
	<b>2. Colouring</b>	For high-gloss surfaces.		8 6	8 6	8 6	8 6	8 6	
1 STEP	<b>Polishing as a 1-step process</b>								
	<b>1. Polishing and Finishing</b>	For low-gloss effects (not high gloss)		9 4	9 4	9 5	9 5	9 5	

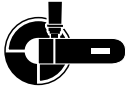
# POLISHING/SATINISING

## Angle grinders/power drills



### Important user information

#### Polishing/satinising with angle polisher and satiniser



To be noted when selecting a tool and using angle polishers:

#### 1. General user information

Using our tapered shank, the polishing and satinising buffs can be fitted to all common angle polishers with an **M14 mating thread**. Depending on the desired working width, more rings can be added up to a **width of 50 mm**.

The recommended operating speed is  $\leq 3,000$  rpm for 150 mm diameter tools.



To be noted when selecting a tool and using satinisers:

#### 1. General user information

The ideal accessories for satinisers in our polishing and satinising range include polishing buffs and non-woven cloths with **bores of 19/6** and keyways, suitable for all common arbors for satinisers.

By adding more rings, **working widths up to 100 mm** can be achieved, making it very easy to polish or satinise large areas to a high gloss.

The recommended operating speed is  $\leq 4,000$  rpm for 100 mm diameter tools.

### Polishing compounds and the role they play in the finishing process

Polishing compounds are essential for all polishing jobs because they contain the abrasive particles needed to achieve a particular surface finish. It is also important to select the correct polishing compound for the desired surface finish.

Please check your product choice using the information in the info heading. It provides an overview of the compounds available and their suitability for particular finishing steps.

More on finding the right compound for your application can be found in the technical information on the first page of "Satinising".



**USE**

white (cutting)	<input checked="" type="checkbox"/>
white (polishing)	<input checked="" type="checkbox"/>
brown (cutting)	<input type="checkbox"/>
brown (polishing)	<input type="checkbox"/>
blue (colouring)	<input checked="" type="checkbox"/>

Steel	<input checked="" type="checkbox"/>
Stainless steel	<input checked="" type="checkbox"/>
Aluminium	<input type="checkbox"/>
Brass	<input type="checkbox"/>
Copper	<input type="checkbox"/>

		4 white		5 brown		6 blue	
g	pcs.	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €
110	15	2103005333	2.30	2103007012	2.70	2103000461	2.45
700	8	8103005333	9.25	8103007012	12.00	8103000462	9.40



**Important note:**  
No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.







# POLISHING/SATINISING

## Angle grinders/power drills



**Satinising Buff**  
Non woven abrasive



### USE

	coarse	medium	fine	superfine
Satinising	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deoxidising	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blending	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

#### Product available with:

	Steel	Stainless steel	Aluminium	Brass	Copper
coarse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
medium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm	mm	mm	rpm	pcs.	coarse	RRP	medium	RRP	fine	RRP
Ø	A	B			Order no.	€	Order no.	€	Order no.	€
100	23	10	4000	10	<b>8203100934</b>	6.95				
100	30	10	4000	10			<b>8203100936</b>	7.50	<b>8203100947</b>	7.90

Material is fixed in a toothed metal ring. The satiniser buff is clamped using conical spring washers.



**Tapered Shank**



mm	mm	pcs.	Shaft	RRP
A	S		Order no.	€
10-35	6	4	<b>8103800224</b>	7.60

Tapered shank for power drill or flexible shaft for clamping polishing and satinising buffs with bores from 10 mm to 100 dia.



**Satinising Kit**



### USE

	coarse	medium	fine	superfine
Satinising	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deoxidising	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Light deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Blending	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

#### Product available with:

	Steel	Stainless steel	Aluminium	Brass	Copper
coarse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
medium	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm	mm	rpm	pcs.	Satinising kit	RRP
Ø	B			Order no.	€
100	10	4000	6	<b>8603600004</b>	28.55

Contents	pcs.
Coarse non woven	1
Medium non woven	1
Fine non woven	1
Tapered shank	1

The 4-part kit contains fine grinding buffs (coarse, medium, fine) and a drive arbor.

# POLISHING/SATINISING



## The right compound for your finishing step

Polishing compounds are essential for all polishing jobs because they contain the abrasive particles needed to achieve a particular surface finish.

It is also important to select the correct polishing compound for the desired surface finish.

More on finding the right compound for your application can be found in the technical information on the first page of "Satinising".



### Important note:

No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.

# **POLISHING/SATINISING**

## **Stationary machines**

**POLISHING/SATINISING USING STATIONARY MACHINES**





# PERFECT POLISHING

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### Maximum 3 steps for perfect high-gloss surfaces:

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**3. Colouring** calls for minimal pressure and short finishing times. Again various polishing buffs are available.

### Which combination for which result?

The following summary will help you find the best combination of polishing compound and polishing tools needed for each step in finishing each material.

➔ The short version can be found in the info area for each product.

#### Key to the materials below.

- |                         |                     |
|-------------------------|---------------------|
| 1 =  Sisal cloth        | 6 =  Compound, blue |
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| 4 =  Compound, white    | 9 =  Cloth 290      |
| 5 =  Compound, brown    | 10 =  Felt, 3-stage |

### 3 STEPS

#### Polishing as a 3-step process

System using top-quality, patented Notiflex mat without bias stitching. Suitable for all machines, diameters and bores.

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Cutting</b> For removing defects and scratches, belt sanding > 280 grit or sisal lines.		1 or 10	1 or 10	1 or 10	starting with step polishing	
		4	4	5		
<b>2. Polishing</b> Removing traces of cutting and blending the surface. Important for achieving a flat, high-gloss surface in the next step.		2 or 10	2 or 10	2 or 10	2 or 10	2 or 10
		4	4	5	5	5
<b>3. Colouring</b> For high-gloss surfaces.		3 or 10	3 or 10	3 or 10	3 or 10	3 or 10
		6	6	6	6	6

### 2 STEPS

#### Polishing as a 2-step process

Suitable for applications where no cutting is needed. **Please note:** there is a special summary of polishing buffs and compounds for the 2-step method using a satiniser.

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Polishing</b> Level the surface. Important for achieving a flat, high-gloss surface in the next step.		7	7	7	7	7
		4	4	5	5	5
<b>2. Colouring</b> For high-gloss surfaces.		8	8	8	8	8
		6	6	6	6	6

### 1 STEP

#### Polishing as a 1-step process

		Steel	Stainless steel	Aluminium	Brass	Copper
<b>1. Polishing and Finishing</b> For low-gloss effects (not high gloss)		9	9	9	9	9
		4	4	5	5	5



# POLISHING/SATINISING

## Stationary machines



### Important user information

#### Polishing/satinising using stationary machines



To be noted when selecting a tool and using stationary machines:

#### 1. General user information

The correct cutting speed when using polishing buffs on polishing and other stationary machines must be determined from case by case.

The recommended maximum operating speed of 3,000 rpm should, however, not be exceeded.

#### 2. Detailed information on optimum speeds

We recommend the following starting values:

Use	Cutting speed
Grinding	approx. 30 m/sec.
Satinising	approx. 20 m/sec.
Cutting	approx. 30-35 m/sec.
Polishing	approx. 30 m/sec.

Summary of cutting speeds as a factor of speed and diameter:

rpm / Ø	150	200
2,600	20 m/sec.	27 m/sec.
2,800	22 m/sec.	29 m/sec.
3,000	23 m/sec.	31 m/sec.

### Polishing compounds and the role they play in the finishing process

Polishing compounds are essential for all polishing jobs because they contain the abrasive particles needed to achieve a particular surface finish. It is also important to select the correct polishing compound for the desired surface finish.

Please check your product choice using the information in the info heading. It provides an overview of the compounds available and their suitability for particular finishing steps.

➔ More on finding the right compound for your application can be found in the technical information on the first page of "Satinising".



**USE**

white (cutting)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
white (polishing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
brown (cutting)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
brown (polishing)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
blue (colouring)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Steel  
Stainless steel  
Aluminium  
Brass  
Copper

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g	pcs.	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €
110	15	2103005333	2.30	2103007012	2.70	2103000461	2.45
700	8	8103005333	9.25	8103007012	12.00	8103000462	9.40



#### Important note:

No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.



# POLISHING/SATINISING



**Liprox Wheel**

mm		⊙	⌚	📦	Aluminum A4T C1H7	RRP	Aluminum A6T C1H7	RRP	SIC S6T C2H7	RRP	SIC S7T C2H7	RRP
Ø	L	B	min <sup>-1</sup>	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€
150	13	1"	3200	1	L15451408A	35.50	L15451431A	35.50	L15452433A	39.90	L15452448A	39.90
150	25	1"	3200	1	L15451408E	65.00	L15451431E	65.00	L15452433E	74.00	L15452448E	74.00
200	13	3"	2400	1	L50901408A	49.50	L50901431A	49.50	L68014192A	55.00	L50902448A	55.00
200	25	3"	2400	1	L50901408E	91.00	L50901431E	91.00	L68014192E	99.00	L50902448E	99.00

The abrasive web is wound around a phenolic tube and treated, this ensures constant hardness and abrasiveness over the life of the product. Liprox are perfect for light deburring. Suitable for light deburring and fast achievement of a technical surface finish. The product is clearly marked with a directional arrow and must rotate in the direction shown.

**NEW!**



### The right polish for your lacquer

Polishes ensure a professional result for lacquer finishes. They are designed for the professional finishing of all lacquer types.

Our polishes come in different varieties, depending on the finishing step.

Details are given on the following pages.



**POLISHES AND COMPOUNDS**



# POLISHING/SATINISING

## Polishes & compounds



### Important user information

#### Polishes and compounds - the key to a perfect polishing result



What to look for when selecting the right polish:

#### 1. General user information

Our polishes are intended for the professional finishing of all lacquer types. Different compounds are available for different finishing steps. Details are given in the figures below.

#### 2. Polish types and applications

- Strong Cut** High-efficiency abrasive compound for **scratches** and **damage** that can still be repaired. For the **second step**, we recommend **Nano-Polish**.
- Cut** Fine abrasive compound for all **wear/ weathering marks in older** paints. For a deep gloss, we recommend using **Nano-Polish in the second step**.
- Complete** Fine abrasive compound to remove all **wear/ weathering marks** in all kinds of paint. For a deep paint, we recommend using **Finish in the second step**.
- Finish** Ideal for the **hologram-free** removal of tiny **scratches and films** on conventional and fresh paints. Brings a deep and brilliant gloss to dark lacquer.
- Nano-Polish** Especially suitable for the new generation of scratch-resistant lacquer. For removing **tiny scratches, holograms and films** to give a deep and brilliant gloss.

#### 3. Detailed information

**Rotational speed**

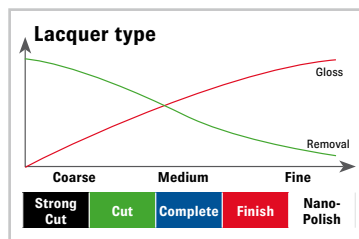
rotating (n=rpm)	1500-2000	1500-2000	1500-2000	1500-2000	1500-2000
eccentric (n=rpm)	2000-10000	2000-10000	2000-10000	2000-10000	2000-10000

**Finishing flaws**

Orange peel	✓	✓	✓	✓	✓
Holograms	-	-	-	✓	✓
Scratches	✓	✓	✓	✓	✓
Weathering	-	✓	✓	-	-

**For OEMs**

Paint runs	-	-	-	✓	✓
Dirt inclusions	-	-	-	✓	✓



**Use/Lacquer type**

Conventional paint	1,500	2,000	2,000-3,000	3,000-4,000	2,500-4,000	rpm
Scratch-resistant paint	-	2,000	2,500	3,500-4,000	3,000-4,000	rpm
Fresh paint	1,500	2,000	2,000-3,000	3,000-4,000	2,500-4,000	rpm
With pad*	orange	orange/blue	orange/blue	black	black	
Properties	hard	medium	medium	soft	soft	
With lambskin*	✓	✓	✓	-	-	

		Strong Cut		Cut		Complete		Finish		Nano-Polish	
ml	pcs.	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €	Order no.	RRP €
1000	6	L699940320	22.15	L699740250	22.15	L699940250	22.15	L699740340	22.15	L699940340	42.75

\* Pads and lambskin can be obtained from good accessory dealers.



#### Important

We recommend testing a sample area before you start work.



# POLISHING/SATINISING Polishes & compounds

## Polishing Emulsions liquid



		Dur Plast		RRP
ml	pcs.	Order no.	€	
50	10	2103002101	8.85	
1000	1	L669002101	45.90	

gloss finish for all non-stamped synthetics, including powder coatings and enamelled surfaces

		Metal polish		RRP
ml	pcs.	Order no.	€	
50	10	2103002102	7.65	
1000	1	L669002102	37.25	

Cleans silver, stainless steel, brass, copper, aluminium and hard plastic. Polish with a damp cloth. Wipe with a clean, soft cloth.

## Acrylic Polishing Kit liquid



		Acrylic polishing set		RRP
pcs.	Order no.	€		
10	1203600001	11.35		

The 4-part kit contains Dur Plast emulsion, sandpaper, sponge and polishing cloth.

## What to look for when selecting a suitable compound:

### General user information

Polishing compounds are essential for all polishing jobs because they contain the abrasive particles needed to achieve a particular surface finish. It is also important to select the correct polishing compound for the desired surface finish.

Please check your product choice using the information in the info heading. It provides an overview of the compounds available and their suitability for particular finishing steps.

- ➔ More on finding the right compound for your application can be found in the technical information on the first page of "Satinising".

## Polishing Compounds solid



### USE

	Steel	Stainless steel	Aluminium	Brass	Copper
white (cutting)	■	■	■	■	■
white (polishing)	■	■	■	■	■
brown (cutting)	■	■	■	■	■
brown (polishing)	■	■	■	■	■
blue (colouring)	■	■	■	■	■

		4 white		RRP	5 brown		RRP	6 blue		RRP
g	pcs.	Order no.	€		Order no.	€		Order no.	€	
110	15	2103005333	2.30		2103007012	2.70		2103000461	2.45	
700	8	8103005333	9.25		8103007012	12.00		8103000462	9.40	



### Important note:

No polishing compound is needed for satinising because the abrasive particles are already embedded in the base material of the satiniser.

# GRINDING

## Introduction & Method Definition



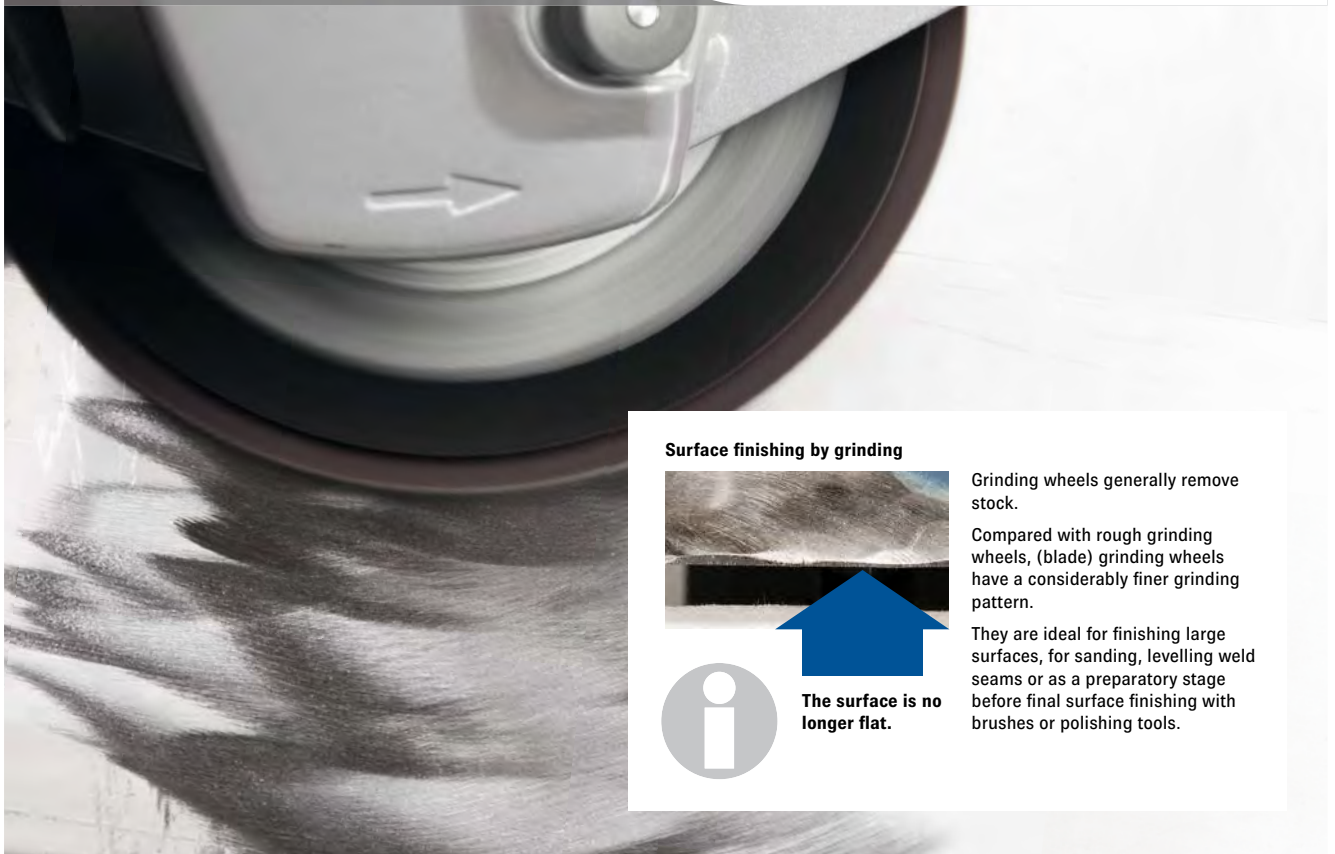
### Surface finishing with brushes



Brush tools are ideal for cleaning and finishing as there is no removal of material from the surface. This avoids striae, grooves or dents resulting from grinding.



# GRINDING BRUSHING



### Surface finishing by grinding



The surface is no longer flat.

Grinding wheels generally remove stock.

Compared with rough grinding wheels, (blade) grinding wheels have a considerably finer grinding pattern.

They are ideal for finishing large surfaces, for sanding, levelling weld seams or as a preparatory stage before final surface finishing with brushes or polishing tools.

# **GRINDING**

## **Angle grinders**

**GRINDING TOOLS FOR ANGLE GRINDERS**



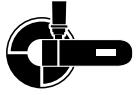
# GRINDING

## Angle grinders



### Important user information

#### Grinding tools for angle grinders



To be noted when selecting grinding tools and using angle grinders:

#### 1. Typical grinding tools for angle grinders



##### Abrasive discs

The main tools used for fine grinding with the angle grinder are abrasive mop wheels – also called abrasive discs.

These are tools which remove stock. They are ideal for grinding down plate material and steel edges, and for levelling weld seams.

#### 2. The different designs and their applications

Abrasive discs come in 2 designs.

A: Flat model:



Workpiece

This design is used primarily for surface grinding.

B Bevelled model:



Workpiece

This design is used primarily for edge grinding and hard-to-reach locations.

Both consist of a glass fibre plate and self-sharpening zirconium corundum.

#### 3. The operating speed and its effect on the grinding result

Varying the operating speed allows the amount of material removed and therefore the fineness of the result to be regulated.



##### Important safety message:

The recommended maximum operating speed should not be exceeded.

# Grinding Angle grinders

## Abrasive discs Zirconia alumina pro-quality bevelled model



### USAGE

rough grinding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
smoothing weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
super finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Zirconia alumina	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aluminium oxide paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm		min-1	pcs.	Grit 40	RRP	Grit 60	RRP	Grit 80	RRP
Ø	B			Order-No.	€	Order-No.	€	Order-No.	€
115	22,2	13300	10	<b>3703-003 114</b>	3,55	<b>3703-003 116</b>	3,55	<b>3703-003 118</b>	3,55
125	22,2	13300	10	<b>3703-003 124</b>	3,95	<b>3703-003 126</b>	3,95	<b>3703-003 128</b>	3,95
178	22,2	8500	10	3703-003 174	10,95	3703-003 176	10,95	3703-003 178	10,95

With zirconium corundum for a high level of stock removal. Especially for processing edges, excellent on stainless steel.



## Abrasive discs Aluminium oxide standard-quality bevelled model



### USAGE

rough grinding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
smoothing weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
super finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Aluminium oxide paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm		min-1	pcs.	Grit 40	RRP	Grit 60	RRP	Grit 80	RRP
Ø	B			Order-No.	€	Order-No.	€	Order-No.	€
115	22,2	13300	10	3713-003 114	2,95	3713-003 116	2,95	3713-003 118	2,95
125	22,2	13300	10	<b>3713-003 124</b>	3,15	<b>3713-003 126</b>	3,15	<b>3713-003 128</b>	3,15
178	22,2	8500	5	3713-003 174	8,80	3713-003 176	8,80	3713-003 178	8,80



**NEW!**



# Grinding

## Angle grinders

### Satinising disc



#### USAGE

	80	100	150	180	240	280
rough grinding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
satin finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Aluminium oxide fleece	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm				coarse	RRP	medium	RRP	fine	RRP
Ø	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	22,2	4900	10	0003-115 104	15,90	<b>0003-115 106</b>	15,90	0003-115 107	15,90
115	22,2	4900	1	0013-115 104 *	16,25	<b>0013-115 106 *</b>	16,25	0013-115 107 *	16,25

\*with fibre strips



**NEW!**

### Abrasive cleaning disc

abrasive



#### USAGE

	80	100	150	180	240	280
rough grinding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
satin finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Cleaning pad, black, SIC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm				Fleece SIC	RRP				
Ø	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	22	11000	10	8003-003 115	8,95				
125	22	10000	10	<b>8003-003 127</b>	9,50				
178	22	7000	1	8003-003 178	15,95				



**NEW!**

## Cutting disc

extra thin



### AS 60T INOX-BF



mm							RRP
Ø	B	A	min <sup>-1</sup>	à	Type	Order-No.	€
115	22,23	1,0	13280	25	straight	<b>4903-115 000</b>	1,60
125	22,23	1,0	12200	25	straight	<b>4913-115 000</b>	1,90

**NEW!**

Extremely thin, resin-bonded and glass-fiber reinforced cutting disc for finishing steel and stainless steel, especially thin-walled profiles, sheet and steel cables, etc. It contain no iron, sulfur or chlorine and cuts like dream. „Made in Germany“ quality!

## Cutting disc

### AS 46T INOX-BF



mm							RRP
Ø	B	A	min <sup>-1</sup>	à	Type	Order-No.	€
125	22,23	1,6	12200	25	straight	<b>4923-115 000</b>	1,85
180	22,23	1,6	8600	25	beveled	<b>4933-115 000</b>	2,55
230	22,23	1,9	6600	25	beveled	<b>4943-115 000</b>	3,10

**NEW!**

Special thin cutting disc (1.6/1.9 mm) for finishing normal and stainless steel, very thin sheet and thin-walled profiles. Characterized by a long service life and high cutting performance. Ideal in tanks and containers, for example. „Made in Germany“ quality!

## Cutting disc

Freecut



### AS 60T INOX-BF Freecut



mm							RRP
Ø	B	A	min <sup>-1</sup>	à	Type	Order-No.	€
115	22,23	2,0/1,0	13280	25	straight	<b>4953-115 000</b>	1,70
125	22,23	2,0/1,0	12200	25	straight	<b>4963-115 000</b>	1,85

### AS 46T INOX-BF Freecut



mm							RRP
Ø	B	A	min <sup>-1</sup>	à	Type	Order-No.	€
180	22,23	3,0/2,0	8600	25	beveled	<b>4973-115 000</b>	2,80
230	22,23	3,0/2,0	6600	25	beveled	<b>4983-115 000</b>	3,60

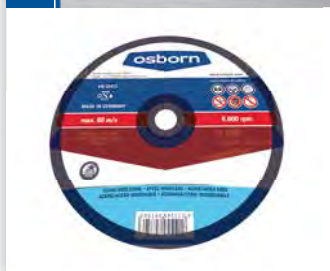
**NEW!**

Special conical cutting disc for greater safety during usage. The conical shape prevents jamming during cutting, eliminating dangerous kick-back from the angle grinder. For finishing normal and stainless steel, very thin sheet and thin-walled profiles. Discs are characterized by a long service life and high cutting performance. „Made in Germany“ quality!

# Grinding

## Angle grinders

### rough-grinding wheel





Universal standard rough-grinding wheel that impresses with its high abrasive performance and long service life.

**NEW!**

### A 30 T-BF



	mm					RRP	
Ø	B	A	min <sup>-1</sup>	à	Type	Order-No.	€
125	22,2	4,0	12200	10	beveled	4913-230 000	2,50
125	22,2	6,0	12200	10	beveled	4923-230 000	2,60
180	22,2	4,0	8600	10	beveled	4943-230 000	3,30
180	22,2	6,0	8600	10	beveled	4933-230 000	3,40



### Polishing Flap Disc



For descaling and derusting of stainless steel, steel, aluminium and non-ferrous materials. Preparation and finishing of welding seams, preparation of painted surfaces. Coarse cleaning fleece like these are designed to be used flat. Don't use for grinding or cutting.

**NEW!**



mm				coarse	RRP	medium	RRP	fine	RRP
Ø	B	min <sup>-1</sup>	à	Order-No.	€	Order-No.	€	Order-No.	€
125	22,2	12200	10	1943-022 125	9,50	1953-022 125	9,50	1963-022 125	9,50

# **GRINDING**

## **Power drills/High-speed machines**

**GRINDING TOOLS FOR POWER DRILLS AND HIGH-SPEED MACHINES**



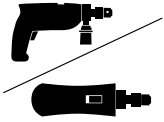
# GRINDING

## Power drills/High-speed machines



### Important user information

#### Grinding tools for power drills and high-speed machines



To be noted when selecting brushes and using power drills and high-speed machines:

#### 1. General user information

The products shown on the following pages have a 6-mm shaft and can be fitted quickly and easily to all common power drills and high-speed machines (e.g. straight grinders).

#### 2. Typical grinding tools for power drills and high-speed machines



##### Serrated grinders

With their lamella structures, these are ideal for high-speed tools and can be used for profiled and hard-to-reach workpieces.



##### Serrated non-woven wheels

These are the perfect addition to serrated grinders because of their soft and flexible structure.

They operate at considerably lower speeds, and thereby achieve an especially fine pattern.



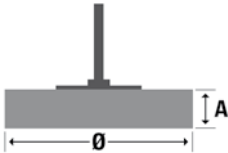
# Grinding

## Power drills/ High-speed machines

### Flap wheels



Flap wheels are suited for surface finishing of most component parts out of steel, nonferrous metals, wood and hard plastics. With aluminium oxide.



#### USAGE

deburning	60	80	120	240
rough grinding	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

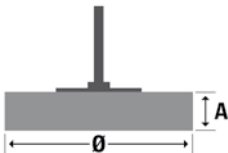
Aluminium oxide paper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm		S	min-1	pcs.	60	RRP	80	RRP	120	RRP
Ø	A				Order-No.	€	Order-No.	€	Order-No.	€
30	10	6	23000	10	0063-003 010	3,80	0083-003 010	3,80	0123-003 010	3,80
30	20	6	23000	10	0063-003 020	4,75	0083-003 020	4,75	0123-003 020	4,75
40	10	6	17000	10	0063-004 010	4,60	0083-004 010	4,60	0123-004 010	4,60
40	30	6	17000	10	<b>0063-004 030</b>	5,40	<b>0083-004 030</b>	5,40	<b>0123-004 030</b>	5,40
50	10	6	14000	10	0063-005 010	4,70	0083-005 010	4,70	0123-005 010	4,70
50	20	6	14000	10	0063-005 020	5,75	0083-005 020	5,75	0123-005 020	5,75
50	30	6	14000	10	<b>0063-005 030</b>	6,25	<b>0083-005 030</b>	6,25	<b>0123-005 030</b>	6,25
60	20	6	11000	10	0063-006 020	6,45	0083-006 020	6,45	0123-006 020	6,45
60	30	6	11000	10	<b>0063-006 030</b>	6,90	<b>0083-006 030</b>	6,90	<b>0123-006 030</b>	6,90
60	40	6	11000	10	0063-006 040	8,35	0083-006 040	8,35	0123-006 040	8,35

### Flap wheels of abrasive fleece



Flap wheels of abrasive fleece are especially suited for surface cleaning. On metal surfaces, they produce a grinding finish with a high density. With aluminium oxide.



#### USAGE

rough grinding	80	100	150	180	240	280
fine grinding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
satin finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
deburning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

Aluminium oxide fleece	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm		S	min-1	pcs.	80	RRP	150	RRP	240	RRP
Ø	A				Order-No.	€	Order-No.	€	Order-No.	€
40	20	6	8000	10	<b>0083-304 020</b>	8,30	<b>0153-304 020</b>	8,30	<b>0243-304 020</b>	8,30
40	30	6	8000	10	0083-304 030	9,75	0153-304 030	9,75	0243-304 030	9,75
50	20	6	7500	10	<b>0083-305 020</b>	9,55	0153-305 020	9,55	0243-305 020	9,55
50	30	6	7500	10	<b>0083-305 030</b>	10,10	<b>0153-305 030</b>	10,10	<b>0243-305 030</b>	10,10
50	40	6	7500	10	0083-305 040	12,05	0153-305 040	12,05	0243-305 040	12,05
60	30	6	7000	10	<b>0083-306 030</b>	12,55	<b>0153-306 030</b>	12,55	<b>0243-306 030</b>	12,55
60	40	6	7000	10	0083-306 040	12,80	0153-306 040	12,80	0243-306 040	12,80

# GRINDING





# GRINDING

## Satinisers



### Important user information

#### Grinding tools for satinisers



To be noted when selecting grinding tools and using satinisers:

#### 1. General user information

These products can be fitted simply and easily thanks to their **19/6 bore** (with 4 keyways) which suits all common satinisers. **The maximum operating speed of 4,400 rpm should not be exceeded.**

#### 2. Typical products for satinisers

##### Abrasive cloth rollers

Abrasive cloth rollers offer the advantages of a flexible abrasive cloth.

Thanks to their open and flexible structure, they conform perfectly to the workpiece being ground.

They are suitable for coarse, medium, fine and superfine grinding.



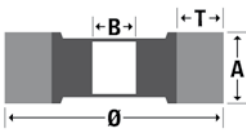
#### 3. Advantage of the cylinder shape

The cylinder shape allows you to achieve the ideal working width of 100 mm without problems. There is no need to fit multiple rings.

# Grinding Satinisers

## Fleece roller brushes

with fleece



### USAGE

	0,2	0,27	K 80	Fibre	Rustfill 80
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seam cleaning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

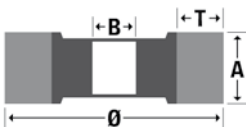
Aluminium oxide fleece	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				coarse		RRP	medium		RRP	fine		RRP
Ø	A	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€		
100	100	19/6	4400	4	<b>1903-100 932</b>	21,45	<b>1903-100 934</b>	21,45	<b>1903-100 936</b>	21,45		

mm				very fine		RRP
Ø	A	B	min-1	pcs.	Order-No.	€
100	100	19/6	4400	4	<b>1903-100 937</b>	21,45

## Roller brushes

crimped wire



### USAGE

	0,2	0,27	K 80	Fibre	Rustfill 80
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seam cleaning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm	mm	mm	mm			0,27	RRP	0,20	RRP
Ø	A	B	T	min-1	pcs.	Order-No.	€	Order-No.	€
100	100	19	17,5	8000	1	1203-703 062	95,85	1203-703 342	127,00
100	12	19	21	8000	1	9803-522 051	11,05	9803-522 341	21,50
100	25	19	17,5	8000	1	9803-523 052	17,30	9803-523 342	32,00
100	70	19	17,5	8000	1	9803-523 056	68,45	9803-523 346	87,80

For roughening, deburring, weld seam cleaning and paint stripping.



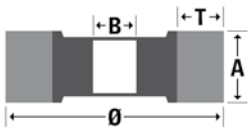
# Grinding Satinisers

## Roller brushes

### abrasive filament



Metal: Roughening, deburring.  
Wood: Structuring of hard and soft wood.



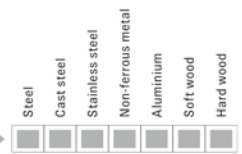
### USAGE

	0.2	0.27	K 80	Fibre	Rustrifil 80
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seam cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Abrasive bristle →



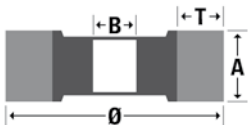
mm	mm	mm	mm	min-1	pcs.	80 Novofil NH-S Order-No.	RRP €	NHA 500 Order-No.	RRP €
100	12	19	21		1	9813-522 911	19,15	9803-522 911	24,50
100	15	12	21		1				
100	25	19	17,5		3	9803-523 912	26,65		
100	70	19	17,5		4	9803-523 916	67,05		
100	100	19	17,5		1	1203-703 912	91,05		

## Roller brushes

### Natural Fibre



For dust removal and cleaning.



### USAGE

	0.2	0.27	K 80	Fibre	Rustrifil 80
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seam cleaning	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Natural bristle →



mm	mm	mm	mm	min-1	pcs.	Fibre Order-No.	RRP €
100	100	19	17,5	8000	1	9803-523 940	123,00

# Grinding Satinisers

## Roller brushes mixed material



### USAGE

roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seam cleaning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
dust removal, cleaning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
finishing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

### TRIM AND MATERIAL

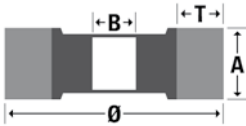
Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	Steel
<input checked="" type="checkbox"/>	Cast steel
<input checked="" type="checkbox"/>	Stainless steel
<input checked="" type="checkbox"/>	Non-ferrous metal
<input checked="" type="checkbox"/>	Aluminium
<input checked="" type="checkbox"/>	Soft wood
<input checked="" type="checkbox"/>	Hard wood

mm	mm	mm	mm	min-1	pcs.	80 Rustifil Order-No.	RRP €
100	12	19	21	8000	1	1203-522 931	32,25
100	25	19	21	8000	1	1203-522 932	49,05
100	70	19	17,5	8000	1	1203-522 936	119,00
100	100	19	17,5	8000	1	1203-703 932	133,00

Metal: Cleaning and finishing of stainless steel, copper- and brass-sheets in one step.  
Wood: Roughening and planing in one step.  
Longer service-life than comparable fleece rollers.



# INTERNAL FINISHING

## Introduction & technical information

# PRODUCT INTRODUCTION INTERNAL FINISHING

### Finishing of bores, perforations, honed surfaces, longitudinal grooves, bearing bores and other internal or difficult-to-reach places

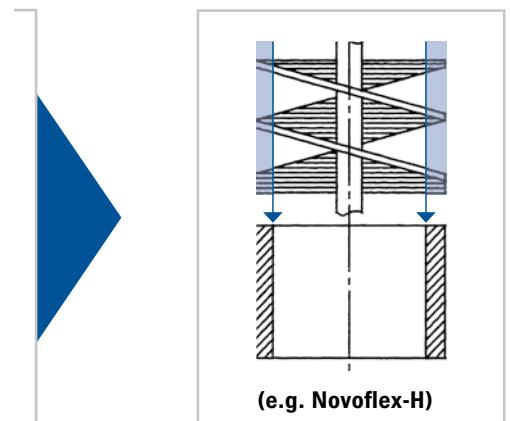
The following chapter contains all the products used for internal finishing.

With these special brushes, Osborn offer you a wide range of very high performance tools for all applications in the area of internal finishing. A detailed summary of product groups, their applications and individual areas of use can be found in the table on the following pages in the next chapter.

## Important note

**Please remember when you place your order that, for best performance, your brush diameter needs to be larger than the diameter of the bore.**

You can find more details in the product overview below



A detailed description of the various trim materials can be found on page 11 of the catalogue.



#### General safety instructions



Wear protective clothing to protect yourself from injury.



More safety instructions and examples of usage can also be found on the Internet.



#### For more information\*



[www.osborn-app.com](http://www.osborn-app.com)

\* Network charges apply for the use of mobile websites.

# **INTERNAL FINISHING**

## **Introduction & technical information**

**INTERNAL FINISHING**



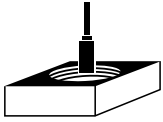
# INTERNAL FINISHING

## Introduction & technical information



### Important user information

#### Brushes for internal finishing



To be noted when selecting brushes for internal finishing:

#### 1. General user information

Brushes for internal finishing are suitable for use with hand-held and stationary tools with drill or jaw chucks and tool spindles. Some products are designed exclusively for manual operation.

#### 2. Typical brushes for internal finishing

Some typical brushes used for internal finishing are shown below. The product overview on the following pages provides details of the whole range.



Helituf



Novoflex-B



Novoflex S1



Micro-abrasive tube brush



#### Finding the right tool


Please check your product choice using the information in the info heading. This will tell you the application for each product and its suitability, as well as providing a summary of the available trim materials suitable for the material being finished.

USE	NHA 800/NHS 900	Nylon-diamond 400-800	0.1g. 0.5g. wire 0.08-0.20	Filament brush 80-320	Novoflex WF 200-320	Crimped steel wire 0.15-0.50	Nylon/Natural fibre
Internal cleaning, general	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brushing edges/tapered grooves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rust removal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cleaning threads/holes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>


TRIM AND MATERIAL	Steel	Cast iron	Stainless steel	Non-ferrous metal	Aluminium	Softwood	Hardwood
Product available with:							
Steel wire, knotted	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel wire, crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel wire, stainless	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abrasive bristle	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nylon-diamond	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Natural bristle	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>




# PROFESSIONAL INTERNAL FINISHING

	Product and material	Properties	Use
<p><b>SITUFT</b></p> 	<p>Internal brushes with crimped original Osborn wire, fastened in a wing-shaped form.</p>	<p>Quick and easy to clamp in a wide variety of machines using different adapters. Designed for hand-held (e.g. pneumatic and electric tools), as well as stationary machines. The brushes can be clamped in collet chucks, jaw chucks and tool spindles.</p>	<p>For cleaning holes and internal surfaces that are difficult to reach, as well as longitudinal grooves.</p>

**i** Clockwise or anti-clockwise operation possible using an adapter. Can only be used in a clockwise direction without an adapter. The larger the diameter, the greater the flexibility of the brush.

<p><b>HELITUF</b></p> 	<p>Internal brushes with original crimped Osborn wire, fastened in a spiral construction.</p>	<p>Designed for hand-held machines. The brushes can be mounted in drill sockets and on spindles. Chuck mounting is also possible using a Helituf adapter. The spiral-shaped construction simulates a stroke action.</p>	<p>To clean and deburr holes, to brush and deburr edges and tapered grooves.</p>
--	---	---	--


**i** An adapter can be used to increase the total length (incl. brush) to 225 mm.

<p><b>Micro-abrasive</b></p> 	<p>Tube brushes with flexible silicon carbide or aluminium oxide trim. Special shaft available upon request.</p>	<p>For use in CNC and NC machines, as well as processing centres.</p>	<p>To clean condensers and boiler pipes, deburr, clean and roughen coated surfaces.</p>
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**i** Brushes should be 5 - 10% larger than the diameter of the hole.


# INTERNAL FINISHING

## Introduction & technical information

	Product and material	Properties	Use
<p><b>Nylon-diamond</b></p>  <p><b>spiral-shaped</b></p>	<p>Tube brush, spiral-shaped</p> <p>Galvanised twisted wire, stabilised with shaft of pressed brass sleeve.</p>	<p>Flexible trim; after heavy usage and deformation the filaments will recover. Filaments flex rather than break.</p> <p>High flexibility and high performance.</p> <p>Easy clamping in collet and jaw chucks.</p>	<p>Edge rounding, deburring of cross holes, further finishing of honed surfaces.</p> <p>Surface roughness reduced significantly.</p> <p>Ideal for finishing hard components (e.g. ceramic), hardened parts, precision components and parts for aerospace applications.</p>




Brushes should be 10 - 15% larger than the diameter of the hole.

<p><b>Nylon-diamond</b></p>  <p><b>wing-shaped</b></p>	<p>Tube brushes, wing-shaped</p> <p>Galvanised twisted wire, stabilised with shaft of pressed brass sleeve.</p>	<p>Because of their very thin and flexible trim, the life of these brushes is longer than that of conventional brushes with a harder trim.</p>	<p>Deburring and finishing, e.g. of longitudinal grooves.</p>
---	---	--	---



Brushes should be 10 - 15% larger than the diameter of the hole.


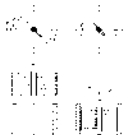
<p><b>Novoflex-B</b></p>  <p><b>rpm 350 – 700</b></p>	<p>Sturdy, self-centring honing tool. Flexible design with abrasive spheres.</p>	<p>Suitable for hand-held and honing machines.</p> <p>For use in CNC and NC machines, processing centres and automatic equipment, clamping in tool spindles also possible.</p>	<p>Edge breaks, final finishing of top surfaces. For use in non-round bores and for deburring and finishing of bearing holes during engine production.</p> <p>To create an even, fine-ground surface with a high contact ratio (plateau finish). The resulting cross-hatching is an ideal base for oil film adhesion.</p>
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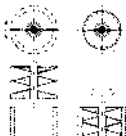
Lubricants must always be used. We recommend lubricating the Novoflex-B with honing oil before use. Mineral oil, engine oil, water-soluble oil or cooling lubricants can be used as alternatives. Honing time: 20 - 40 sec. The process time can be reduced for deburring longitudinal and cross holes. Clean the bore using hot water and detergent and Osborn nylon tube brushes.

# INTERNAL FINISHING


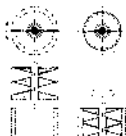
## Introduction & technical information

	Product and material	Properties	Use
<p><b>Novoflex-S</b></p>  <p><b>rpm</b> approx. 600</p>	<p>Flat brush with wing-shaped trim material, double wire core. Shaped on the outer contact surfaces to provide a larger working surface.</p> 	<p>Flexible trim; after heavy usage and deformation the filaments will recover. Filaments flex rather than break.</p> <p>These honing brushes are used in a clockwise, oscillating movement.</p> <p>Easy clamping in collet and jaw chucks.</p>	<p>Surface finishing of workpieces that do not require deburring, e.g. internal finishing of pipes, manufacture of piston pumps, engines.</p>

**i** Brushes should be up to 25% larger than the diameter of the hole.

<p><b>Novoflex-H</b></p>  <p><b>rpm</b> approx. 600 – 1,400</p>	<p>Spiral-shaped trim material</p> 	<p>Very long and reliable brush life.</p> <p>High contact surface with component to be finished because of special flat bristle.</p> <p>Large trim thickness.</p>	<p>Deburring, surface finishing of bores and cylindrical workpieces, e.g. engines, pumps, hydraulic and pneumatic cylinders, brake cylinders.</p>
--	--	---	---

**i** Brushes should be 10 - 15% larger than the diameter of the hole. Please use product in an oscillating motion.

<p><b>Novoflex-HF</b></p>  <p><b>rpm</b> approx. 600 – 1,400</p>	<p>Spiral-shaped trim material.</p> 	<p>High contact surface with component to be finished because of special flat bristle.</p> <p>Suitable for large differences between brush and hole diameters.</p> <p>Lighter trim.</p>	<p>Deburring, surface finishing of bores and cylindrical workpieces, e.g. engines, pumps, hydraulic and pneumatic cylinders, brake cylinders.</p>
--	---	---	---

**i** Brushes should be 10 - 15% larger than the diameter of the hole. Please use product in an oscillating motion.

# INTERNAL FINISHING

## Introduction & technical information

	Product and material	Properties	Use
<p><b>Hole cleaning brushes, nozzle cleaning brushes, fitting brushes, terminal post brushes</b></p>	<p>In crimped wire or nylon With handle</p> 	<p>For manual use</p> 	<p>Internal cleaning of a wide range of materials, from steel or copper to wood and plastic.</p> 
<p><b>Stove pipe cleaner, percussion brush</b></p>	<p>Different shapes, some with stamped thread or eyelets Trim material: crimped wire, flat wire or nylon.</p> 	<p>For manual use Can be lengthened with shaft.</p> 	<p>Chimney cleaning</p>





# INTERNAL FINISHING

**SITUFT® adapter**



**PREMIUM**

Adapter to fix in various power tools. 9907-075131 suitable for shank dia. 2,38mm; 9907-075132 suitable for shank dia. 3,18mm.

mm			RRP					
Ø	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	85	1	9907-075 131 *	9,85				
10	85	1	9907-075 132 *	9,85				

\* Parts included in the SITUFT®Set (Order-No. 9907-035 000).

**HELITUF®**  
**crimped Osborn wire**



**PREMIUM**

Double wire core for automatic or manual applications. Adapter available to extend length up to max. 225mm (details below).



W = workpiece diameter

**USAGE**

Internal cleaning  
Deburring  
Brush edges/tapered grooves  
Derust  
Thread/drill hole cleaning  
Plateau finish

Internal cleaning  
 Deburring  
 Brush edges/tapered grooves  
 Derust  
 Thread/drill hole cleaning  
 Plateau finish

NHA 600/NHS 1000  
 Nylon Diam. 400-800  
 Dig. Dia. Wire 0,08-0,20  
 Abrasive particle 60-120  
 Weight WF 990-520  
 Crimp stainless 0,15-0,50  
 Nylon/natural

**TRIM AND MATERIAL**

Products available with:

Steel wire crimped → Steel, Cast steel, Stainless steel, Non-ferrous metal, Aluminium, Soft wood, Hard wood

Stainless steel → Steel, Cast steel, Stainless steel, Non-ferrous metal, Aluminium, Soft wood, Hard wood

mm					Osborn 0,13		Osborn 0,20			
W	A	L	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	25	89	3,18	12	9907-036 012	4,10				
8	25	89	3,18	12	9907-036 017	4,10				
10	25	89	3,18	12	9907-036 022 *	4,45	9907-036 023	4,05		
11	25	89	3,18	12	9907-036 027 *	4,45				
13	25	89	3,18	12	9907-036 032	4,60	9907-036 033 *	4,35		
14	25	89	3,18	12	9907-036 037 *	4,60				
16	25	89	3,18	12	9907-036 042	4,90	9907-036 043 *	4,70		
18	25	89	3,18	12	9907-036 047 *	4,90				
19	25	89	3,18	12	9907-036 052	5,00	9907-036 053 *	4,85		
21	25	89	3,18	12	9907-036 057 *	5,05				
22	25	89	3,18	12	9907-036 062	5,25	9907-036 063 *	5,05		
24	25	89	3,18	12	9907-036 067 *	5,30				
25	25	89	3,18	12	9907-036 072	5,30	9907-036 073 *	5,05		
29	25	89	3,18	12	9907-036 082 *	5,70				
32	25	89	3,18	12			9907-036 093	6,00		

\* Parts included in the HELITUF®Set (Order-No. 9907-036 000).

mm					Osborn 0,13		Osborn 0,20			
W	A	L	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	25	89	3,18	12	9907-036 139	7,15				
10	25	89	3,18	12	9907-036 147	7,20	9907-036 148	7,15		
11	25	89	3,18	12	9907-036 151	7,25				
13	25	89	3,18	12	9907-036 155	7,75	9907-036 156	7,25		
16	25	89	3,18	12	9907-036 163	7,90	9907-036 164	7,70		
19	25	89	3,18	12			9907-036 172	8,10		
19	25	89	3,18	1	9907-036 171	8,35				
22	25	89	3,18	12	9907-036 179	8,95				
24	25	89	3,18	12			9907-036 188	9,25		
25	25	89	3,18	12	9907-036 187	9,75				
32	25	89	3,18	12			9907-036 204	9,95		

# INTERNAL FINISHING

## HELITUF®-Set

### crimped Osborn wire



**PREMIUM**

HELITUF® Set: 12 brushes D10 to D29 and two adapters. Parts in this set are marked by an asterix in the above table.

### USAGE



Internal cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brush edges/tapered grooves	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Nylon 600/NE5 9000  
 Nylon Dam. 400-800  
 Orig. Osb. Wire 0,08-0,20  
 Abrasive impregn. 320  
 Newell WF 900-320  
 Crimp stainless 0,15-0,50  
 Nylon/natural

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

pcs.	Order-No.	€	Order-No.	€	Order-No.	€
1	<b>9907-036 000</b>	108,00				

## HELITUF® adapter



**PREMIUM**

Adapter can be used singly or in combination for a total length of 225mm. Article-no.: 9907-075126 with outer thread, 9907-075127 with inner thread.

mm		pcs.	Order-No.	€	Order-No.	€	Order-No.	€
5	90	1	<b>9907-075 126</b> *	19,95				
6	90	1	<b>9907-075 127</b> *	19,95				


\* Parts included in the HELITUF®Set (Order-No. 9907-036 000).

## Tube & internal brushes

### crimped wire



### USAGE



Internal cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brush edges/tapered grooves	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

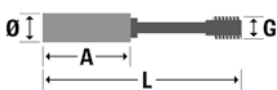
Nylon 600/NE5 9000  
 Nylon Dam. 400-800  
 Orig. Osb. Wire 0,08-0,20  
 Abrasive impregn. 320  
 Newell WF 900-320  
 Crimp stainless 0,15-0,50  
 Nylon/natural

### TRIM AND MATERIAL

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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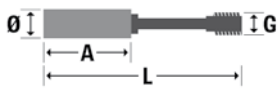
mm				0,15		0,20	
Ø	A	L	G	Order-No.	€	Order-No.	€
10	100	140	M 6	<b>0003-815 210</b>	6,80		
12	100	140	M 6	<b>0002-815 212</b>	7,05		
14	100	140	M 6	<b>0002-815 214</b>	7,20		
15	100	140	5/16 Zoll	<b>0002-812 215</b>	6,90		
18	100	140	5/16 Zoll			<b>0002-812 218</b>	7,00
20	100	140	5/16 Zoll			<b>0002-812 220</b>	7,10



mm				0,30	
Ø	A	L	G	Order-No.	€
25	100	160	1/2 Zoll	<b>0002-808 125</b>	7,20
30	100	160	1/2 Zoll	<b>0002-808 130</b>	7,50
32	100	160	1/2 Zoll	<b>0002-808 132</b>	7,55
38	100	160	1/2 Zoll	<b>0002-808 138</b>	7,70
40	100	160	1/2 Zoll	<b>0002-808 140</b>	7,95
44	100	160	1/2 Zoll	<b>0002-808 144</b>	8,10
50	100	160	1/2 Zoll	<b>0002-808 150</b>	8,35

# INTERNAL FINISHING

## Tube & internal brushes straight wire



### USAGE

Internal cleaning  
Deburring  
Brush edges/tapered grooves  
Derust  
Thread/drill hole cleaning  
Plateau finish

NiH 800/NiS 9000	<input type="checkbox"/>
Nylon Dam 400-800	<input type="checkbox"/>
Dig. Dec. Wire 0,30-0,20	<input type="checkbox"/>
Aluminum wire 0,30-0,20	<input type="checkbox"/>
Novell WF 900-300	<input type="checkbox"/>
Crimp stainless 0,15-0,50	<input type="checkbox"/>
Nylon/Inbrul	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Steel wire straight →



mm					0,25	RRP	0,30	RRP	0,35	RRP
Ø	A	L	G	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	100	160	1/2 Zoll BSW	5	<b>0003-810 125</b>	10,50				
28	100	160	1/2 Zoll BSW	5	<b>0003-810 128</b>	10,90				
30	100	160	1/2 Zoll BSW	5	<b>0003-810 130</b>	10,95				
38	100	160	1/2 Zoll BSW	5			<b>0003-810 138</b>	11,40		
40	100	160	1/2 Zoll BSW	5			<b>0003-810 140</b>	11,70		
44	100	160	1/2 Zoll BSW	5			<b>0003-810 144</b>	11,75		
50	100	160	1/2 Zoll BSW	5			<b>0003-810 150</b>	11,95		
57	100	160	1/2 Zoll BSW	5			<b>0003-810 157</b>	12,40		
63	100	160	1/2 Zoll BSW	5					<b>0002-808 163</b>	8,70
75	100	160	1/2 Zoll BSW	5					<b>0002-808 175</b>	9,75

mm					0,40	RRP	0,50	RRP
Ø	A	L	G	pcs.	Order-No.	€	Order-No.	€
69	100	160	1/2 Zoll BSW	5	<b>0003-810 169</b>	12,80		
82	100	160	1/2 Zoll BSW	5	<b>0003-810 182</b>	14,00		
100	100	160	1/2 Zoll BSW	5			<b>0002-808 100</b>	11,35
101	100	160	1/2 Zoll BSW	5			<b>0003-810 100</b>	15,30

## Wire handles for radiator brushes



				Steel wire	RRP	RRP
G	L	pcs.		Order-No.	€	Order-No.
1/2 Zoll BSW	1000	10		<b>0002-819 110</b>	9,55	
M 6	1000	10		1132-819 110	9,55	
M 6	1000	5		0003-819 111 *	11,05	
M 12	1000	5		0003-819 112	12,75	
3/8 Zoll R	1000	10		0002-829 110	9,55	
5/16 Zoll BSW	1000	10		1103-819 110	9,55	

\* with loop

Flexible - with a thread to extend heating element brushes and tube brushes.

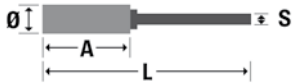
# INTERNAL FINISHING

## Tube & internal brushes

### abrasive trim



Zinc-plated twisted shaft with single trim spiral. For cross-hole deburring, control units, O-ring grooves and cylindrical components.



### USAGE

Internal cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brush edges/tapered grooves	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NHA 600/NHS 1000  
Nylon Dam 400-800  
Drg. Out. Wire 0.08-0.20  
Abrasive Trim (Ø) 320  
Novofil WF 600-320  
Crimo stakel/m 0.15-0.50  
Nylon/Natural

### TRIM AND MATERIAL

Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	Steel
<input checked="" type="checkbox"/>	Cast steel
<input checked="" type="checkbox"/>	Stainless steel
<input checked="" type="checkbox"/>	Non-ferrous metal
<input checked="" type="checkbox"/>	Aluminium
<input checked="" type="checkbox"/>	Soft wood
<input checked="" type="checkbox"/>	Hard wood

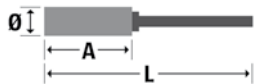
mm					NHS 1000	RRP	NHA 600	RRP
Ø	A	L	S	pcs.	Order-No.	€	Order-No.	€
0,7	12	100	0,42	12	<b>0003-056 400</b>	18,85		
1,2	12	100	0,47	12	<b>0003-056 403</b>	18,05		
1,9	18	100	0,74	12	<b>0003-056 406</b>	17,55		
2,2	18	100	0,93	12	<b>0003-056 409</b>	16,35		
2,6	25	100	1,08	12	<b>0003-056 412</b>	15,50		
3,2	25	100	1,66	12	<b>0003-056 415</b>	15,25		
3,5	25	100	1,66	12	<b>0003-056 418</b>	15,25		
4,2	25	125	2,20	12			<b>0003-056 425</b>	15,00
4,8	25	125	2,20	12			<b>0003-056 427</b>	14,45
5,5	25	125	2,20	12			<b>0003-056 428</b>	14,10
6,6	25	125	3,00	12			<b>0003-056 429</b>	13,75
8,2	25	125	3,00	12			<b>0003-056 432</b>	13,20
9,8	25	125	3,40	12			<b>0003-056 435</b>	14,15
11,5	25	125	3,40	12			<b>0003-056 436</b>	13,70
13	25	125	4,20	12			<b>0003-056 438</b>	13,80
16	25	125	4,20	12			<b>0003-056 441</b>	14,85
17,5	25	125	4,20	12			<b>0003-056 442</b>	15,00
19,4	25	125	5,60	12			<b>0003-056 444</b>	15,15
22,6	25	125	5,60	12			<b>0003-056 447</b>	15,50
25,8	25	125	6,20	12			<b>0003-056 450</b>	16,00

## Tube & internal brushes

### abrasive filament



Deburring cross-holes, control parts, O-Ring grooves and cylindrical bores. Recommendation: Brushes should be 10-15% larger than the bore.



### USAGE

Internal cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brush edges/tapered grooves	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NHA 600/NHS 1000  
Nylon Dam 400-800  
Drg. Out. Wire 0.08-0.20  
Abrasive Trim (Ø) 320  
Novofil WF 600-320  
Crimo stakel/m 0.15-0.50  
Nylon/Natural

### TRIM AND MATERIAL

Products available with:

Abrasive bristle →

<input checked="" type="checkbox"/>	Steel
<input checked="" type="checkbox"/>	Cast steel
<input checked="" type="checkbox"/>	Stainless steel
<input checked="" type="checkbox"/>	Non-ferrous metal
<input checked="" type="checkbox"/>	Aluminium
<input checked="" type="checkbox"/>	Soft wood
<input checked="" type="checkbox"/>	Hard wood

mm					Novofil 80	RRP	Novofil 120	RRP	Novofil 320	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
6	50	125	12			<b>0003-056 306</b>	9,70			
8	50	125	12			<b>0003-056 308</b>	9,70			
10	50	125	12	<b>0003-056 010</b>	7,95	<b>0003-056 310</b>	7,95			
13	50	125	12	<b>0002-056 011</b>	8,15	<b>0002-056 311</b>	8,15	<b>0002-056 331</b>	8,15	
16	50	125	12	<b>0002-056 012</b>	8,40	<b>0002-056 312</b>	8,40			
19	65	125	12	<b>0002-056 013</b>	8,75			<b>0002-056 333</b>	8,75	
22	65	125	12	<b>0002-056 014</b>	8,80			<b>0002-056 334</b>	8,80	
25	65	125	12	<b>0002-056 015</b>	9,05			<b>0002-056 335</b>	9,05	
32	65	125	12	<b>0002-056 016</b>	10,95			<b>0002-056 336</b>	10,95	
38	65	125	12	<b>0002-056 017</b>	11,65			<b>0002-056 337</b>	11,65	
50	65	125	12	<b>0002-056 018</b>	13,00			<b>0002-056 338</b>	13,00	

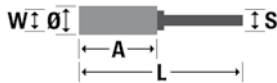




# INTERNAL FINISHING



Flexible, self-centering honing tool. Achieves a plateau finish. Due to cross grinding a good carrier for oil film adhesion.

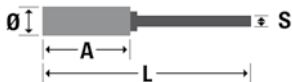



W = workpiece diameter

mm						Grit SC 120	RRP	Grit SC 180	RRP	Korn SC 240	RRP
W	Ø	A	L	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
8	9	50	200	3,6	1	<b>9818-036 309</b>	20,50	<b>9828-036 309</b>	20,50		
9	10	50	200	3,6	1	<b>9818-036 310</b>	21,35	<b>9828-036 310</b>	21,35		
10	11	60	200	3,6	1	<b>9818-036 311</b>	21,80	<b>9828-036 311</b>	21,80	<b>9838-036 311</b>	23,10
10	11	60	200	3,7	1						
11	12	60	200	3,6	1	<b>9818-036 312</b>	22,25	<b>9828-036 312</b>	22,25		
12	13	60	200	3,6	1	<b>9818-036 313</b>	22,65	<b>9828-036 313</b>	22,65		
12	13	60	200	3,7	1					<b>9838-036 313</b>	24,00
14	15,5	60	200	3,6	1	<b>9818-036 316</b>	23,10	<b>9828-036 316</b>	23,10		
14	15	60	200	3,7	1					<b>9838-036 315</b>	24,50
16	18	60	200	4,6	1	<b>9818-036 318</b>	24,50	<b>9828-036 318</b>	24,50	9838-036 318	26,00
18	20	60	200	4,6	1	<b>9818-036 320</b>	25,00	<b>9828-036 320</b>	25,00	<b>9838-036 320</b>	26,50
20	22	70	200	4,6	1	<b>9818-036 322</b>	25,45	<b>9828-036 322</b>	25,45	9838-036 322	26,95
22	25	70	200	4,6	1	<b>9818-036 325</b>	26,35	<b>9828-036 325</b>	26,35	<b>9838-036 325</b>	26,00
24	27	70	200	5,1	1	<b>9818-036 327</b>	27,30	<b>9828-036 327</b>	27,30		
25	28	70	200	5,1	1	<b>9818-036 328</b>	28,10	<b>9828-036 328</b>	28,10	9838-036 328	29,80
27	30	70	200	5,1	1	<b>9818-036 330</b>	29,05	<b>9828-036 330</b>	29,05	<b>9838-036 330</b>	30,75
29	32	70	200	5,1	1	<b>9818-036 332</b>	29,95	<b>9828-036 332</b>	29,95	<b>9838-036 332</b>	31,75
32	35	70	200	5,7	1	<b>9818-036 335</b>	31,45	<b>9828-036 335</b>	31,45	<b>9838-036 335</b>	33,35
35	38	70	200	5,7	1	<b>9818-036 338</b>	32,90	<b>9828-036 338</b>	32,90		
38	41	70	200	5,7	1	<b>9818-036 341</b>	34,40	<b>9828-036 341</b>	34,40		
41	45	70	200	5,7	1	<b>9818-036 345</b>	35,90	<b>9828-036 345</b>	35,90	<b>9838-036 345</b>	38,05
45	48	70	200	5,7	1	<b>9818-036 348</b>	37,40	<b>9828-036 348</b>	37,40	9838-036 348	39,65
48	51	70	200	6,5	1	<b>9818-036 351</b>	38,80	<b>9828-036 351</b>	38,80		
51	54	70	200	6,5	1	<b>9818-036 354</b>	39,90	<b>9828-036 354</b>	39,90	<b>9838-036 355</b>	42,30
54	57	70	200	6,5	1	<b>9818-036 357</b>	40,30	<b>9828-036 357</b>	40,30	9838-036 357	42,70
57	60	70	200	7,3	1	<b>9818-036 360</b>	41,00	<b>9828-036 360</b>	41,00	<b>9838-036 360</b>	43,50
60	64	70	200	7,3	1	<b>9818-036 364</b>	41,75	<b>9828-036 364</b>	41,75		



Operating speed approx. 600 min-1. Use with oscillation in one direction.





**USAGE**

Internal cleaning

Deburring

Brush edges/tapered grooves

Derust

Thread/drill hole cleaning

Plateau finish

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →  Steel  Cast steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm					Grit 120	RRP	Grit 320	RRP		
W	A	L	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
16	22	90	3,18	12	<b>9907-036 450</b>	28,00				
16	22	90	3,18	6			9907-036 451	28,00		
26	22	85	3,18	6	9907-036 452	37,80	9907-036 453	37,80		
32	25	85	3,18	1	9907-036 474	50,65				
32	25	85	3,18	6			9907-036 476	50,65		
38	38	125	6,35	2	9907-036 454	74,05				
38	38	125	6,35	12			9907-036 455	74,05		
51	38	120	6,35	2	9907-036 456	80,30				
51	38	120	6,35	12			9907-036 457	80,30		
63	50	160	9,53	2	9907-036 458	91,85				
63	50	160	9,53	12			9907-036 459	91,85		
76	50	160	9,53	2	9907-036 460	108,00				
76	50	160	9,53	12			9907-036 461	108,00		

# INTERNAL FINISHING

**Shank extension**

**PREMIUM**

mm				RRP				
S	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6,35	150	1	9907-075 485	12,75				
6,35	300	1	9907-075 486	16,10				
12,70	400	1	9907-075 488	80,90				

**novoflex-H®**  
**novofil®-WF**



**PREMIUM**

**USAGE**

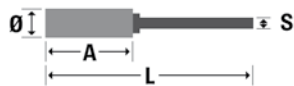
Internal cleaning  
Deburring  
Brush edges/tapered grooves  
Derust  
Thread/drill hole cleaning  
Plateau finish

**TRIM AND MATERIAL**

Products available with:  
Abrasive bristle

Steel  
Cast steel  
Stainless steel  
Non-ferrous metal  
Aluminium  
Soft wood  
Hard wood

Oscillation use at approx. 600-1400 min-1.  
Version with very dense trim.



mm						Grit 120	RRP	Grit 320	RRP		
Ø	A	L	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
16	22	90	3,18	6	9907-036 300	25,85	9907-036 301	25,85			
19	22	90	3,18	6	9907-036 478	31,30					
22	22	85	3,18	6	9907-036 480	38,60	9907-036 481	38,60			
26	22	85	3,18	6	9907-036 302	41,70					
26	22	85	3,18	12			9907-036 303	41,70			
29	50	125	3,18	2	9907-036 482	57,75					
29	50	125	6,35	25			9907-036 483	57,75			
25	50	125	6,35	2	9907-036 484	75,45					
38	50	125	6,35	2	9907-036 304	78,65	9907-036 305	78,65			
42	50	125	6,35	2	9907-036 491	83,00	9907-036 490	83,00			
46	50	125	6,35	2	9907-036 489	88,00	9907-036 488	88,00			
51	50	125	6,35	2	9907-036 306	91,30	9907-036 307	91,30			
56	50	125	6,35	2	9907-036 486	97,00	9907-036 487	97,00			
63	90	160	9,53	2	9907-036 308	92,75	9907-036 309	92,75			
76	100	160	9,53	2	<b>9907-036 310</b>	107,00	9907-036 311	107,00			
89	100	160	9,53	2	9907-036 312	113,00					
89	100	160	9,53	12			9907-036 313	113,00			
102	100	160	9,53	2	9907-036 314	193,00	9907-036 315	193,00			
115	100	152	9,53	2	9907-036 316	215,00	9907-036 317	215,00			
127	125	230	12,7	2	9907-036 318	240,00	9907-036 319	240,00			
140	125	235	12,7	2	9907-036 320	273,00	9907-036 321	273,00			
153	140	230	12,7	2	9907-036 322	277,00	9907-036 323	277,00			



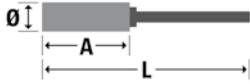
# INTERNAL FINISHING



## Nozzle cleaning brushes

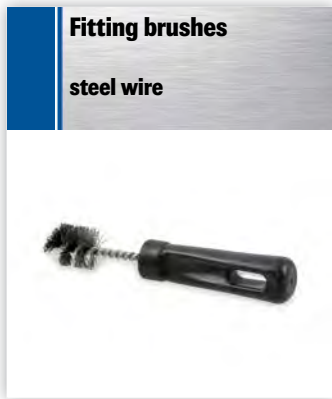
Wire/Nylon

Double wire cable and loop.



mm				Steel wire Crimped	RRP	Brass Crimped	RRP	Stainless Crimped	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
4	100	300	20	0003-816 204	7,10			0003-816 304	11,70
5	100	300	20	0003-816 205	7,15			0003-816 305	11,70
6	100	300	20	0003-816 206	7,15	0003-816 506	7,65	0003-816 306	11,70
8	100	300	20	0003-816 208	6,10	0003-816 508	7,65	0003-816 308	8,45
10	100	300	20	0003-816 210	6,10	0003-816 510	7,35	0003-816 310	8,45
12	100	300	20	0003-816 212	6,50	0003-816 512	7,35	0003-816 312	8,45
15	100	300	20	0002-816 215	6,60	0002-816 515	7,50	0002-816 315	8,75
18	100	300	20	0002-816 218	6,65	0002-816 518	7,50	0002-816 318	8,75
20	100	300	20	0002-816 220	6,65	0002-816 520	7,50	0002-816 320	8,75
25	100	300	20	0002-816 225	7,00	0002-816 525	8,35	0002-816 325	8,90

mm				Nylon	RRP				
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
4	100	300	20	0003-816 804	2,30				
5	100	300	20	0003-816 805	2,30				
6	100	300	20	0003-816 806	2,30				
8	100	300	20	0003-816 808	2,30				
10	100	300	20	0003-816 810	2,40				
12	100	300	20	0003-816 812	2,40				
15	100	300	20	0003-816 815	2,70				
18	100	300	20	0003-816 818	2,70				
20	100	300	20	0003-816 820	2,85				
25	100	300	20	0003-816 825	2,95				



## Fitting brushes

steel wire

To clean the inside of tubes and solder fittings made of copper or red brass.



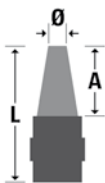
mm				0,12 Steel wire	RRP	0,20 Steel wire	RRP	0,26 Steel wire	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	25	160	12	0003-075 250	5,85				
10	25	160	12	0003-075 251	5,95				
13	25	160	12			0003-075 252	6,00		
16	25	160	12			0003-075 253	6,00		
19	28	160	12			0003-075 254	6,05		
23	25	160	12			0003-075 255	6,05		
26	25	160	12			0003-075 256	6,25		
29	32	160	12					0003-075 257	6,35
33	35	160	12					0003-075 258	6,50
43	38	160	6					0003-075 259	6,60
56	45	160	6					0003-075 260	6,80

## Battery terminal brush

steel wire



To clean batteries (pole and clamp cleaning).



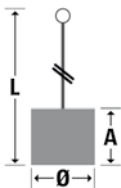
		mm			Steel wire Crimped	RRP				
Ø	T	L	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
15/ 25	65	120	12		<b>0008-493 100</b>	9,55				

## Stove pipe cleaners

crimped wire



With a flexible, galvanised wire handle.



		mm			0,30 Crimped	RRP				
Ø	A	L	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
125	120	2000	10		0002-824 213	11,40				
125	120	3000	10		<b>0002-825 213</b>	12,90				
140	120	2000	10		0002-824 214	12,30				
140	120	3000	10		0002-825 214	13,55				
160	120	3000	10		<b>0002-825 216</b>	13,95				
210	120	2000	10		0002-824 221	13,40				



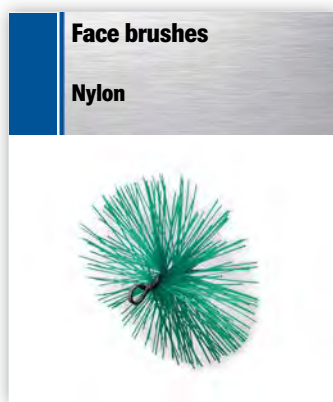
# INTERNAL FINISHING



mm Ø	G	pcs.	Steel wire	RRP				
			Order-No.	€	Order-No.	€	Order-No.	€
100	M12 x175	5	0003-890 100	7,85				
125	M12 x175	5	0003-890 125	7,95				
150	M12 x175	5	<b>0003-890 150</b>	8,05				
200	M12 x175	5	0003-890 200	9,30				
250	M12 x175	5	0003-890 250	10,00				
300	M12 x175	5	0003-890 300	10,40				
350	M12 x175	5	0003-890 350	11,05				
400	M12 x175	5	0003-890 400	16,20				



mm Ø	G	pcs.	2,4 x 0,4	RRP				
			Order-No.	€	Order-No.	€	Order-No.	€
200x200	M12 x175	5	<b>0003-896 200</b>	11,80				
250x250	M12 x175	5	0003-896 250	13,80				
300x300	M12 x175	5	0003-896 300	17,35				
350x350	M12 x175	5	0003-896 350	24,55				





mm Ø	G	pcs.	PPN Green	RRP				
			Order-No.	€	Order-No.	€	Order-No.	€
150	M12 x175	5	<b>0003-890 815</b>	9,60				
200	M12 x175	5	<b>0003-890 820</b>	11,55				
250	M12 x175	5	0003-890 825	12,65				
300	M12 x175	5	0003-890 830	16,00				

## Face brushes

### Nylon



mm				PPN Green	RRP				
Ø	G	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
150	M12 x175	5	0003-870 815	11,90					
200	M12 x175	5	0003-870 820	13,90					
250	M12 x175	5	0003-870 825	15,05					
300	M12 x175	5	0003-870 830	18,55					

## Handle

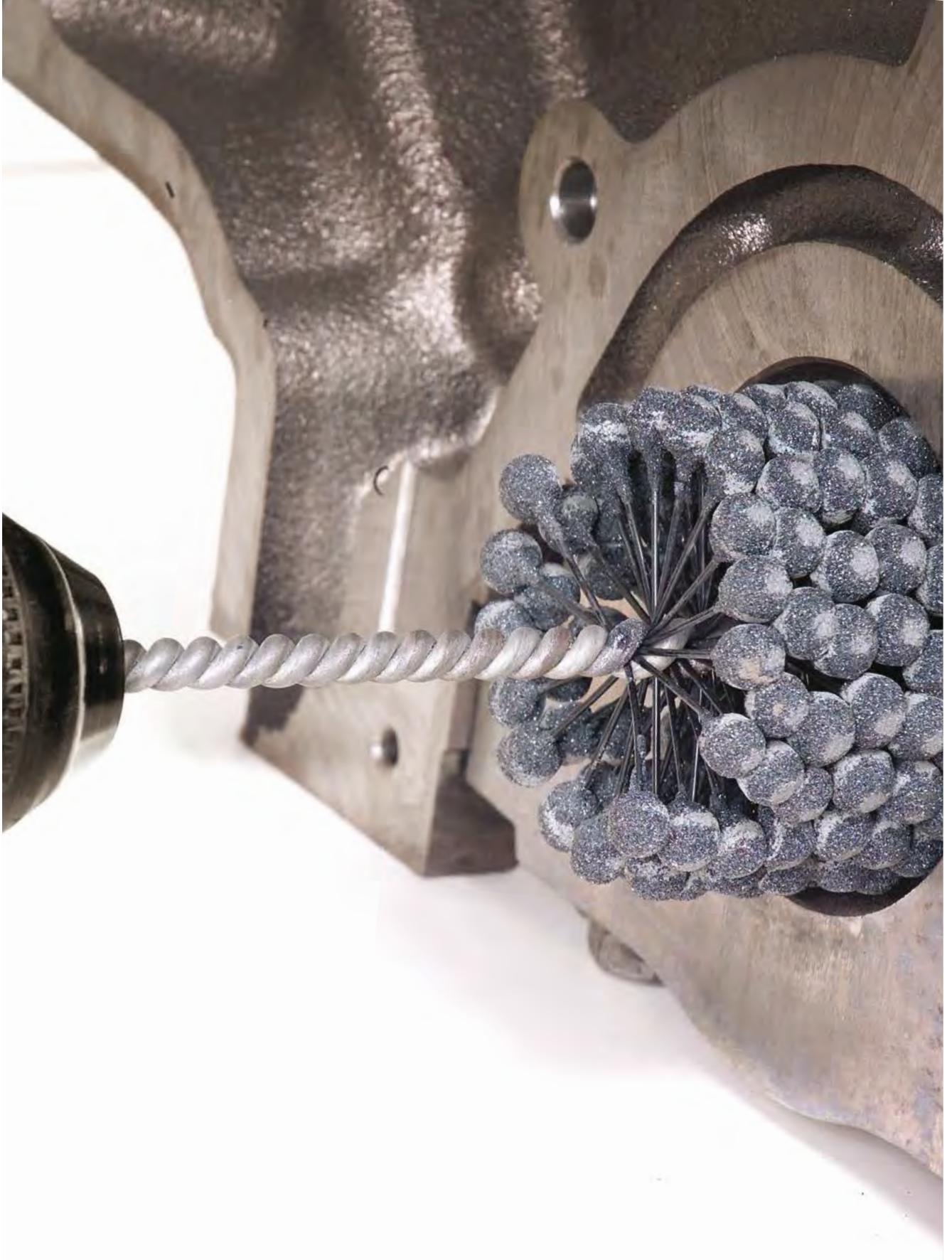
### for face brushes



mm				RRP		RRP			
Ø	L	G	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
18	1000	M12	5	<b>0003-824 100</b>	9,85	<b>0003-844 100</b> *	13,25		
18	1500	M12	5	<b>0003-824 150</b>	11,05	0003-844 150 *	14,30		
18	2000	M12	5	<b>0003-824 200</b>	13,45	<b>0003-844 200</b> *	16,55		
20	1000	M12	5	0003-834 100	19,30				
20	1500	M12	5	0003-834 150	21,30				
20	2000	M12	5	0003-834 200	23,10				

\*self-locking

Plastic covered, not flexible.





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0001-104 924	82	0002-056 012	139	0002-503 332	36	0002-505 361	52	0002-509 192	57
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0001-122 596	84	0002-056 016	139	0002-503 341	36	0002-505 363	36	0002-509 194	57
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0001-151 393	77	0002-501 332	36	0002-504 162	35	0002-506 332	36	0002-509 542	57
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<b>0002-566 361</b>	64	<b>0002-623 131</b>	31	<b>0002-816 215</b>	144	<b>0003-056 435</b>	139	<b>0003-147 575</b>	77
0002-576 141	64	<b>0002-623 151</b>	31	<b>0002-816 218</b>	144	<b>0003-056 436</b>	139	<b>0003-151 124</b>	77
<b>0002-576 145</b>	68	0002-623 331	31	<b>0002-816 220</b>	144	<b>0003-056 438</b>	139	<b>0003-162 133</b>	78
<b>0002-576 161</b>	64	0002-623 351	31	<b>0002-816 225</b>	144	<b>0003-056 441</b>	139	<b>0003-162 333</b>	78
<b>0002-576 195</b>	68	<b>0002-626 061</b>	24	<b>0002-816 315</b>	144	<b>0003-056 442</b>	139	<b>0003-165 584</b>	78
0002-576 341	64	<b>0002-626 251</b>	23	0002-816 318	144	<b>0003-056 444</b>	139	<b>0003-165 964</b>	78
<b>0002-576 345</b>	68	0002-626 305	23	<b>0002-816 320</b>	144	<b>0003-056 447</b>	139	<b>0003-509 141</b>	41
0002-576 361	64	0002-626 311	23	0002-816 325	144	<b>0003-056 450</b>	139	<b>0003-509 141</b>	57
0002-576 906	68	0002-626 505	23	<b>0002-816 515</b>	144	<b>0003-075 064</b>	71	<b>0003-509 149</b>	56
<b>0002-576 916</b>	68	<b>0002-626 650</b>	23	<b>0002-816 518</b>	144	<b>0003-075 064</b>	75	<b>0003-509 161</b>	41
0002-576 926	68	<b>0002-626 651</b>	23	<b>0002-816 520</b>	144	<b>0003-075 065</b>	75	<b>0003-509 161</b>	57
<b>0002-586 175</b>	68	<b>0002-630 304</b>	54	<b>0002-816 525</b>	144	<b>0003-075 065</b>	71	<b>0003-509 169</b>	56
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<b>0002-587 161</b>	64	<b>0002-630 310</b>	54	0002-824 213	145	<b>0003-075 066</b>	75	<b>0003-509 191</b>	57
<b>0002-587 341</b>	64	<b>0002-630 311</b>	54	0002-824 214	145	<b>0003-075 067</b>	71	<b>0003-509 341</b>	57
0002-587 361	64	<b>0002-630 316</b>	54	0002-824 221	145	<b>0003-075 067</b>	75	<b>0003-509 341</b>	41
<b>0002-608 131</b>	27	<b>0002-630 317</b>	54	<b>0002-825 213</b>	145	<b>0003-075 068</b>	71	<b>0003-509 349</b>	56
<b>0002-608 133</b>	28	<b>0002-630 328</b>	54	0002-825 214	145	<b>0003-075 068</b>	75	<b>0003-509 361</b>	57
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<b>0002-608 151</b>	27	<b>0002-630 340</b>	54	<b>0002-892 215</b>	143	<b>0003-075 070</b>	75	<b>0003-509 541</b>	57
<b>0002-608 153</b>	28	<b>0002-630 341</b>	54	<b>0002-892 220</b>	143	<b>0003-075 070</b>	71	<b>0003-509 541</b>	41
<b>0002-608 154</b>	28	<b>0002-631 131</b>	23	<b>0002-892 225</b>	143	0003-075 071	75	<b>0003-509 561</b>	41
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<b>0002-608 333</b>	28	<b>0002-632 331</b>	31	0002-921 876	25	0003-075 250	144	<b>0003-810 125</b>	138
<b>0002-608 334</b>	28	<b>0002-632 351</b>	31	0002-921 889	25	0003-075 251	144	<b>0003-810 128</b>	138
<b>0002-608 351</b>	27	<b>0002-641 131</b>	23	<b>0002-930 821</b>	40	<b>0003-075 252</b>	144	<b>0003-810 130</b>	138
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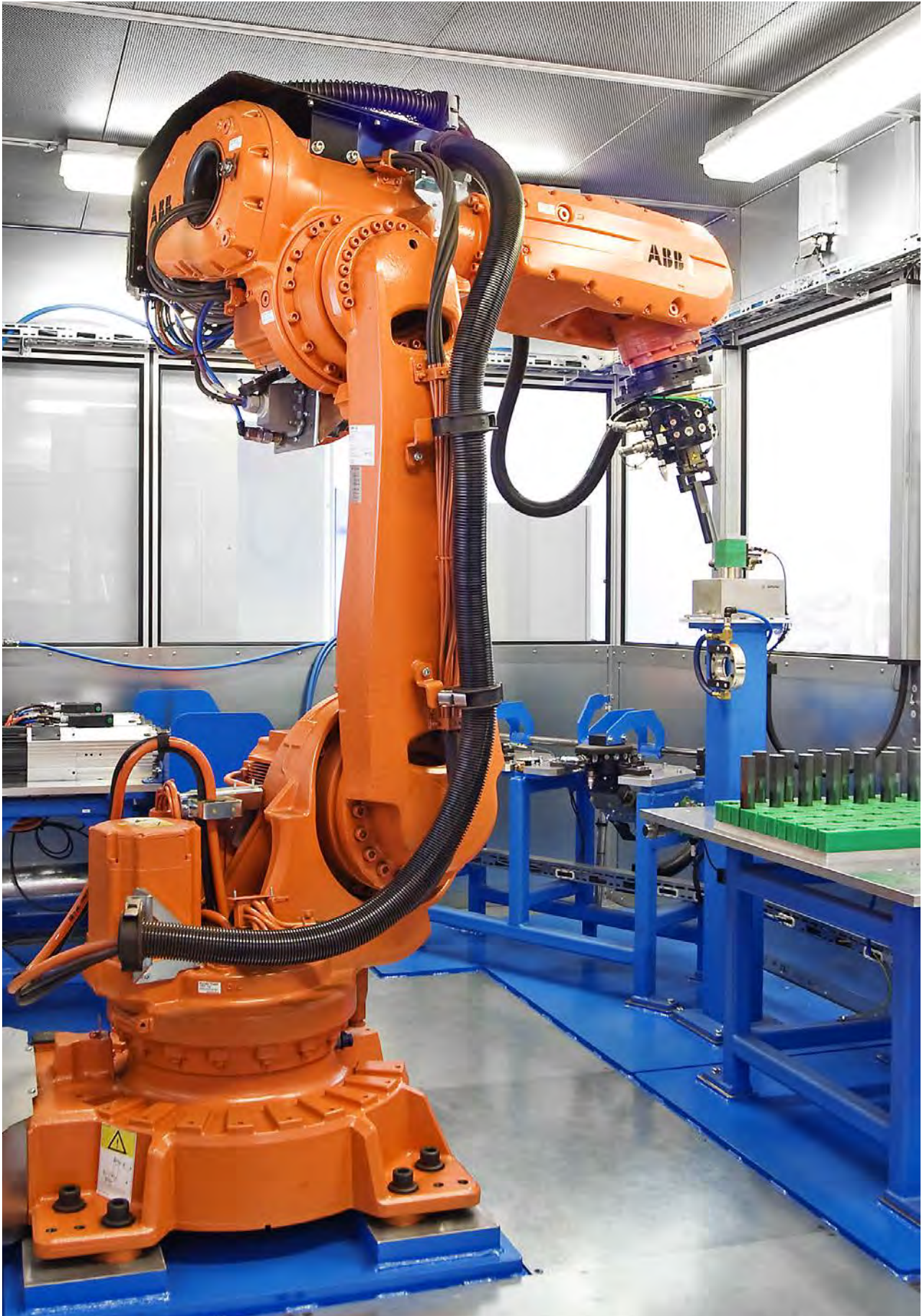
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## THE BROOM FOR AGRICULTURE AND INDUSTRY

In production facilities, agricultural premises or recycling and waste-management sites there are a lot of areas which need to be kept clean at any time. Osborn has developed a sweeping solution that achieves this result easily, professionally and with low cost. Our broom consists of high quality single strip brushes which are assembled under a solid 5 mm galvanized hood.

The Osborn Broomate® can be attached to a big number of industrial or agricultural vehicles and cleans all sorts of heavy debris, but also liquids. There are no rotating or electrical parts. Just mount the broom to your vehicle in no time and start sweeping.



The galvanized steel cover that makes it easy to remove the brushes is available in different widths.

Broomate® model	Minimate	Midimate	Maximate	Megamate
Article number	0004APR120	0004APR180	0004APR240	0004APR300
Width (A)	1200 mm	1800 mm	2400 mm	3000 mm
Depth (B)	706 mm	706 mm	706 mm	706 mm
Height (C)	540 mm	540 mm	540 mm	540 mm
Width Forklift-Adapter (D)	180 mm (170) WP 210	180 mm (170) WP 210	180 mm (170) WP 210	180 mm (170) WP 210
Length Forklift-Adapter (E)	1060 mm	1060 mm	1060 mm	1060 mm
Height Forklift-Adapter (F)	80 mm (75)	80 mm (75)	80 mm (75)	80 mm (75)
Dimension between Forklift-Adapter (G)	656 mm	656 mm	656 mm	656 mm
Steel thickness	5 mm	5 mm	5 mm	5 mm
Canopy finishing	Galvanized	Galvanized	Galvanized	Galvanized
N° Brush rows	8	11	11	11
Weight	95 kg	157 kg	260 kg	337 kg
Strips filament material/color	Poly Red	Poly Red	Poly Red	Poly Red

Adaptors & Options				
Forklift adaptor (170 x 70)	●	●	●	●
Forklift adaptor Wide pocket (210 x 70)	○	○	○	○
Forklift & shovel/loader adaptor	○	○	○	○
Forklift & skid steer adaptor	○	○	○	○
Forklift & Euro frame adaptor	○	○	○	○
Forklift & 3 point adaptor	○	○	○	○
Storage support legs	●	●	●	●
Edge marker kit	○	○	○	○
Special adaptors	On request	On request	On request	On request
Packaging	●	●	●	●

Brushes recharge kit	Units	Units	Units	Units
0004APR034 Set of 11 Strip brushes (580 x 285)	-	-	1	2
0004APR017 Set of 8 Strip brushes (1200 x 285)	1	-	-	-
0004APR013 Set of 11 strip brushes (1820 x 285)	-	1	1	1
Weight	20 kg	41,25 kg	55 kg	68,75 kg

● Included ○ Option

# ADVANTAGES



## Maintenance free

- Simple and cost effective cleaning solution.
- No hydraulics, no motors, no rotating or electrical parts.
- Easy to clean with water or steam.

## Robust

- 5 mm galvanized steel hood and fork-shoes and protective end-shield.

## Versatile

- Excellent cleaning capabilities suitable for heavy debris and dirt like gravel, sand, slurry and snow, as well as for liquids.
- Bi-directional – sweep forward or in reverse.



## Long Service Life

- Brush strips last up to 800 kilometers.

## Environmentally friendly

- All parts can be recycled.
- No need for motor oil, fuel or electric consumption.



## Variable Mounting

- Quick and easy mounting on almost any vehicle using optional adapters (extensive range available).

## Easy Replacement

- Brush strips can be replaced in an instant.
- Simply slide-out and slide-in.

## Easy storage

- Supporting frame prevents brush strips from bending in storage.



## Safety First

- No rotating parts, chains or motors.
- No noise, no dust.

**MORE INFORMATION: Scan in QR code and view product video, or download catalogue.**



[www.broomate.com](http://www.broomate.com)

# OTHER PRODUCTS FOR DOWNLOADING

## High-performance machine brushes



Top-quality machines and special brushes for industrial applications

## Novofil high-tech bristles



Abrasive nylon brushes with premium abrasives such as diamond, zircon, aluminium oxide, etc.

## Solutions for woodworking



Brush and abrasive rollers, tools and compounds for colouring (for hand tools and manual finishing).

## ATB disc brushes with abrasive bristles



Up to 4 times higher trim thickness than conventionally manufactured disc brushes

## Micro-polishing brushes



Polishing tools and compounds for micro-polishing

## Novoflex-B



Self-centring honing tools for a gentle grinding process

## Multi-strip brushes



Strip and seal brushes

## Polishing products



Premium polishing tools, compounds and emulsions

## Products for agriculture

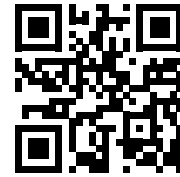


Professional sweeping solutions for agriculture, plus livestock brushes

## IT'S THIS EASY:

for ease and simplicity, you can download our Osborn special catalogue from the Osborn website.

If you have a smartphone or tablet PC, you can also scan the QR code using the app to reach the overview page.



[www.osborn.com/de-de/service/literatur.html](http://www.osborn.com/de-de/service/literatur.html)

### Turbfly®



Special solutions for rail traffic: snow-protection systems for turnouts and sand.

### Load Runners



Load-bearing rollers and heavy-load roller guides

### Multizack



Stamped brushes for cleaning, deburring, transporting, sorting, washing, and guiding.

### Solutions for the oil and gas industry



Brushes for cleaning welds and special brushes for the pipeline industry (transport brushes, contact brushes and cutback systems)

### Brush rollers for mechanical finishing of printed circuit boards



Brush rollers for deburring, cleaning/deoxydising, resin removal, plus finishing and cleaning of press plates

### Solutions for rolling mills and conveyor systems



Brush rollers, complete systems and installations Felt rollers for degreasing, washing, cleaning, activating or descaling strip surfaces. Transport roller systems for roller hearth furnaces, high-temperature areas and for noise reduction.



# General terms and conditions of payment and supply inland

(January 2014)

## Applicability

1. These conditions of sale apply to business owners, legal entities under public law and separate funds under public law. Our deliveries and services are provided exclusively on the basis of the conditions below. Unless expressly acknowledged by us, the business terms and conditions of the partner have no validity.

## General provisions

2. Verbal agreements will be confirmed by the contracting parties in detail and without delay. 3. Orders will become binding upon issuance of our order confirmation. 4. The information and illustrations contained in brochures and catalogues are approximations usual in the industry unless we have expressly stated they are binding. 5. The packaging units specified in the catalogue and in our quotations and order confirmations are the smallest possible and for rationalisation reasons cannot be broken down further. If orders are places for different numbers of pieces, the closest packaging unit will be supplied.

## Long-term and call contracts, price adjustment

6. Contracts of indefinite duration may be terminated at 3 months' notice. 7. In the case of long-term contracts (contracts for more than 6 months and contracts of indefinite duration), if there is a significant change in wage, material or energy costs, each contracting party shall be entitled to request an appropriate change in the price in view of these factors. 8. If a binding order quantity is not agreed, our calculation will be based on the non-binding order quantity (target quantity) expected by the partner for a specific period. If the partner requires less than the target quantity, we will be entitled to increase the unit price appropriately. 9. In the case of call supply contracts, unless otherwise agreed, we are to be advised of binding quantities per call at least 6 weeks before the delivery date. Additional costs incurred as a result of a late call or subsequent changes to the call by our partner in relation to time or quantity will be its own expense; our calculation will be the criterion here.

## Confidentiality

10. Each contracting party shall use all documents (including samples, models and data) and information obtained under the business relationship only for mutually shared purposes and shall keep them confidential in respect of third parties with the same care as would be exercised towards its own documents and information where the other contracting party has identified them as confidential or has an obvious interest in keeping them confidential. This obligation will start upon the initial receipt of the documents or information and will end 36 months after the termination of the business relationship. 11. This obligation does not apply to documents and information which are generally known or were already known upon their receipt by the contracting party and involve no obligation of confidentiality, or which are subsequently forwarded to third parties authorised to pass them on or which are developed by the receiving contracting party without being identified by the other contracting party as documents or information requiring confidentiality.

## Drawings and specifications

12. If one contracting party provides the other with drawings or technical documentation about the goods to be supplied or their manufacture, these remain the property of the party providing them.

## Samples and production materials

13. Unless otherwise agreed, the manufacturing costs for samples and production materials (tools, moulds, templates, etc.) will be invoiced separately from the goods to be supplied. This also applies to production materials which have to be replaced as a result of wear. 14. The costs for the maintenance and proper storage, as well as the risk of damage or destruction of production material, will be borne by us. 15. Where the partner terminates the collaboration during the preparation time for samples or production materials, it will bear all production costs arising until that time. 16. Even if the partner has paid for it, the production material shall remain our property at least until the supply contract has been completed. After that, the partner shall be entitled to reclaim the production material where an agreement has been reached on the timing of the return and the partner has fulfilled all its contractual obligations. 17. We will store the production material without charge for three years after the final delivery to our partner. We will then ask our partner in writing for instructions within 6 weeks on its further use. Our obligation to store the equipment will end if no instructions are received within these 6 weeks or no further order is placed. 18. Customers' production material may only be used for deliveries to third parties with the prior written agreement of our partner.

## Prices

19. Our prices are in euros, excluding VAT, packaging, freight, carriage and insurance.

## Conditions of payment

20. All invoices become due for payment within 30 days of the invoice date. 21. Where we have clearly supplied defective goods, our partner shall still be obliged to pay for the non-defective quantity. Otherwise, the partner may only offset payment against legally established or uncontested counterclaims. 22. If the payment terms are not met, we shall be entitled to claim default interest on the amount in the invoice at the rate which the bank charges us for account overdraft facilities, said amount being at least 8 percentage points above the base rate of the European Central Bank. 23. In the event of a delay in payment, we may, after written notification to the partner, suspend fulfilment of our obligations until payment is received. 24. Bills of exchange and cheques will only be accepted by agreement, conditional upon fulfilment and on condition of their being discountable. Discount charges will be calculated from the day the invoice amount becomes due. An assurance of the prompt provision of a bill of exchange and cheque, and for the investigation of a protest of a bill of exchange is excluded. 25. Where it becomes apparent after conclusion of the contract that our claim for payment is at risk because of the partner's inability to pay, we may decline to provide the service and set the partner a reasonable deadline by which to make payment or provide security concurrently with delivery. Where the partner declines to do so or the deadline passes without a successful conclusion, we shall be entitled to withdraw from the contract and to demand damages.

## Delivery

26. Valid for catalogue articles printed in bold letters: The minimum order value per each customer order is 150 € net. If the minimum order value of 150 € is not reached, there will be a surcharge of 14 €. Valid for catalogue articles not printed in bold letters: The minimum order value per article is at least 300 € net.

27. Compliance with the delivery date or deadline will be based on our confirmation of readiness for despatch or collection. The delivery deadline shall start when we send our order confirmation and shall be extended appropriately where the provisions of article 56 apply. 28. Partial deliveries shall be permitted to a reasonable extent. They will be invoiced separately. 29. Production-related over- or under-deliveries shall be permitted within a tolerance of +/- 15% of the total order quantity. The total price will be adjusted accordingly. 30. On the return of goods incorrectly ordered, we reserve the explicit right to deduct a re-stocking charge, should a credit be due.

## Despatch and transfer of risk

31. Goods advised as being ready for despatch must be accepted by the partner without delay. Otherwise, we shall be entitled at our option to despatch them or to store them at the cost and risk of the partner. 32. In the absence of a separate agreement, we will select the transport method and route. 33. The risk shall transfer to the partner upon handover to the railway, forwarding agent or freight carrier, and/or on commencement of storage, but at the latest when the goods leave the factory or storage facility, even if we have arranged the delivery.

## Delay in delivery

34. Where we can foresee that the goods cannot be delivered by the deadline, we will inform the partner of this immediately and in writing, explaining the reasons and where possible nominating the probably delivery date if the planned delivery date will be delayed by more than 10 working days. 35. In the event of the delivery being delayed by one of the circumstances outlined in Article 56 or by an action or omission by the partner, the delivery deadline will be extended in accordance with the circumstances. 36. The partner shall only be entitled to withdraw from the contract if we are responsible for the delivery date not being met and it has granted us an extension without success.

## Reservation of title

37. We will retain ownership of the goods supplied until all claims under the business relationship with the partner have been met. 38. The partner shall be entitled to sell these goods in the normal course of business so long as it has fulfilled its obligations with us under the business relationship in good time. However, it may neither pledge nor transfer the reserved goods as security. It shall be obliged to protect our rights where the reserved goods are resold on credit. 39. In the event of breaches of duty by the partner, especially a delay in payment, we shall be entitled at the unsuccessful conclusion of a reasonable delay granted to the partner, to withdraw the service and take back the goods; the legal provisions governing dispensing with an extension of time remain unaffected. The partner shall be obliged to return the goods. We shall be entitled to withdraw from the contract if an application is filed for insolvency proceedings against the partner's assets. 40. The partner shall then assign to us as security all claims and rights deriving from the sale or leasing of goods for which we may have given the partner permission of goods over which we have the right of ownership. We hereby accept the assignment. 41. Any working or processing of reserved goods by the partner shall be on our behalf. If the reserved goods are processed or inseparably mixed with other items not owned by us, we shall acquire joint ownership of the new product in the proportion of the invoice value of the reserved goods to the other processed or mixed items at the time of their processing or mixing. If our goods are combined or inseparably mixed with other moveable items to form a single product and if the other product is deemed to be the principal product, the partner shall transfer ownership to us on a pro rata basis to the extent that it owns the principal product. The partner shall maintain ownership or part ownership on our behalf. In all other respects, the same shall apply to the product created by processing or combining or mixing as for the reserved goods. 42. The partner must inform us immediately of enforcement measures taken by third parties in respect of the reserved goods to which we lay claim or in which we have other securities by providing us with the documents required for an intervention. This also applies to infringements of any other kind. 43. If the value of the existing securities exceeds the secured claims by a total of more than 20 percent, we shall be obliged at the partner's request to release securities of our choice.

## Material defects

44. The quality of the goods shall be based exclusively on the agreed technical supply specifications. In the event of our having to supply in accordance with the drawings, specifications, samples, etc. of our partner, it shall assume the risk of suitability for intended use. The condition of the contracted goods shall be that at the time the risk is transferred in accordance with Article 32. 45. Any material defects arising from unsuitable or improper use, incorrect assembly or operation by the partner or third parties, normal wear and tear, defective or negligent handling shall also be excluded as in the case of unsuitable modifications or operation undertaken by the partner or third parties without our approval. The same shall apply to defects which reduce the value or fitness for use of the goods to a minor extent. 46. Claims for material defects shall be statute-barred after 12 months. This shall not apply where the law prescribes longer periods of time as mandatory. 47. Where it is agreed that the goods are to be accepted or initial samples tested, the notification of defects which the partner could have identified upon careful acceptance or initial sample testing are excluded. 48. We must be given an opportunity to confirm the notified defect. Goods complained of must be returned to us immediately upon request; we shall bear the transport costs where the notice of defect is justified. Where the partner does not fulfil these obligations or undertakes modifications without our permission to goods which are the subject of complaint, it shall forfeit any claims for material defects. 49. Where the notice of defect is justified and advised in good time, we shall, at our choice, improve the goods complained of or supply defect-free replacements. 50. If we fail to meet these obligations or to do so within the contractually agreed reasonable time, the partner may set us a final deadline by which we must meet our obligations. If this deadline passes without successful result, the partner may require a reduction in price, withdraw from the contract or undertake the necessary improvement itself or have it done by third parties at our expense and risk. The reimbursement of costs shall be excluded where the expenses are increased because the goods have been brought to another place after delivery by us unless this involved the goods being used as intended. 51. The partner shall have statutory rights of recourse against us only insofar as it has not reached agreements with its customer, which go beyond the statutory claims for defects. Article 49 above shall further apply to the extent of the rights of recourse.

## Other claims, liability

52. Unless otherwise specified below, other and more extensive claims against us by the partner are excluded. This applies especially to claims for damages for breach of duties arising from the obligation or from unlawful acts. We shall not be liable for damage not deriving from the supplied goods themselves. We shall in particular not be responsible for any loss of profit or financial losses by the partner. 53. The limitations of liability indicated do not apply in the case of specific intent, gross negligence on the part of our legal representatives or senior employees, and in the event of culpable violation of significant contractual obligations. In the event of culpable violation of significant contractual obligations, we shall be liable - other than in cases of specific intent or gross negligence on the part of our legal representatives or senior employees - only for standard contractual loss or loss which might reasonably have been expected. 54. The limitation of liability does also not apply in cases where there is liability in accordance with product liability laws covering defects in goods supplied for personal use or material damage to goods intended for private use. It is also not applicable in case of injury to life, body or health and in the absence of guaranteed properties if and in so far as the object of the guarantee was to cover the partner against any losses not deriving from the supplied goods themselves. 55. Insofar as our liability is excluded or limited, this also applies to the personal liability of our employees, contractors, personnel, legal representatives and vicarious agents. 56. The legal provisions relating to burden of proof are not affected by this.

## Force majeure

57. Acts of God, industrial disputes, disturbances, official measures, non-arrival of deliveries from our suppliers and other unforeseeable, unavoidable and serious events shall release the contracting parties from their duty to perform for the duration of the disturbance and the extent of its effect. This also applies where these events occur at a time when the contracting party in question is in default, unless the delay is the result of deliberate intention or gross negligence. The contracting parties shall be obliged, so far as is reasonable, to provide the necessary information immediately and in good faith to adjust their obligations to accommodate the changed circumstances.

## Place of performance, jurisdiction and applicable law

58. Unless otherwise indicated in the order confirmation, the place of performance is our principal place of business. 59. The place of jurisdiction for all legal disputes, including bills of exchange and cheque procedures, is also our principal place of business. We are also entitled to bring an action at the place of business of the partner. 60. The contractual relationship is governed exclusively by the laws of the Federal Republic of Germany. Application of the United Nations Convention on Contracts for the International Sale of Goods of 11 April 1980 (CISG - "Vienna Sales Convention") is excluded.





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