



**PRODUCT  
CATALOGUE  
2016**



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New member of  
Jason Finishing Group

# YOUR FIRST CHOICE FOR ALL SURFACES.

Dear customers,

As CEO of Osborn International GmbH, Dronco GmbH and President of the Jason Finishing Group, I invite you to start a new chapter in surface finishing with us.

**The acquisition of DRONCO by the Jason Finishing Group, the logical merger of two market-leading companies in surface finishing, means there will be innumerable synergies for all involved – especially for you as our customer.**

Products from the DRONCO and OSBORN brands complement each other perfectly: with our portfolio that extends from cutting to grinding, sanding, deburring, honing, satinising to polishing, we are the global provider of complete solutions for mechanical surface finishing.

The management teams from DRONCO and OSBORN are now working flat out to coordinate business processes and sales structures - with the single aim of making access to our products even easier for you.

Together, we want to prove to you that 180 year of experience, outstanding service, expert advice, innovative products, dedication and toil make us your first choice when you need experts for surface finishing.

**I thank you for your trust in your partners OSBORN and DRONCO, and look forward to our continuing cooperation.**

**Dr. Florestan von Boxberg**

CEO Osborn International GmbH  
CEO Dronco GmbH  
President Jason Finishing Group



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

SUBSIDIARIES  
IN  
**14**  
COUNTRIES

SALES OFFICES  
IN  
**23**  
COUNTRIES

SERVICE  
IN  
**120**  
COUNTRIES

MORE  
THAN  
**2000**  
EMPLOYEES  
WORLDWIDE



– new member of the Jason Finishing Group. Have a look at the comprehensive Dronco productportfolio:



Dronco im Web: [www.dronco.de](http://www.dronco.de)

Scan the QR-Code and get an overview on the comprehensive portfolio.



The Dronco catalogue as PDF-Download:

Scan the QR-Code and download the recent Dronco catalogue as PDF or view online.



# THE BEST SERVICE AT ALL LEVELS



## Service means just that - service.

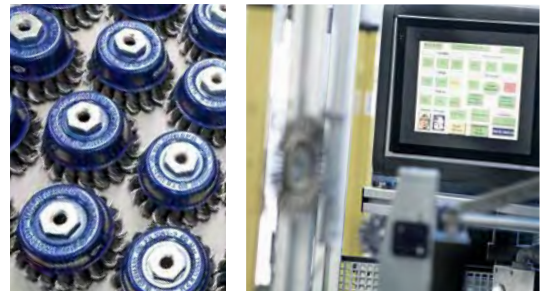
It's not just a matter of dependable ordering, attractive conditions and fast delivery. We have that already, of course. We offer our customers a 100% service.

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.**

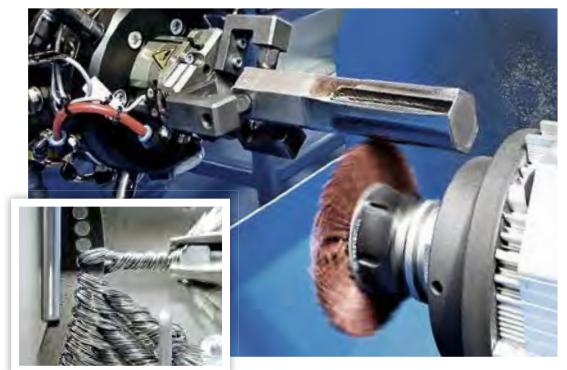


In our R&D centre, we use the latest technology to achieve maximum ease of use and safety.

## 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.



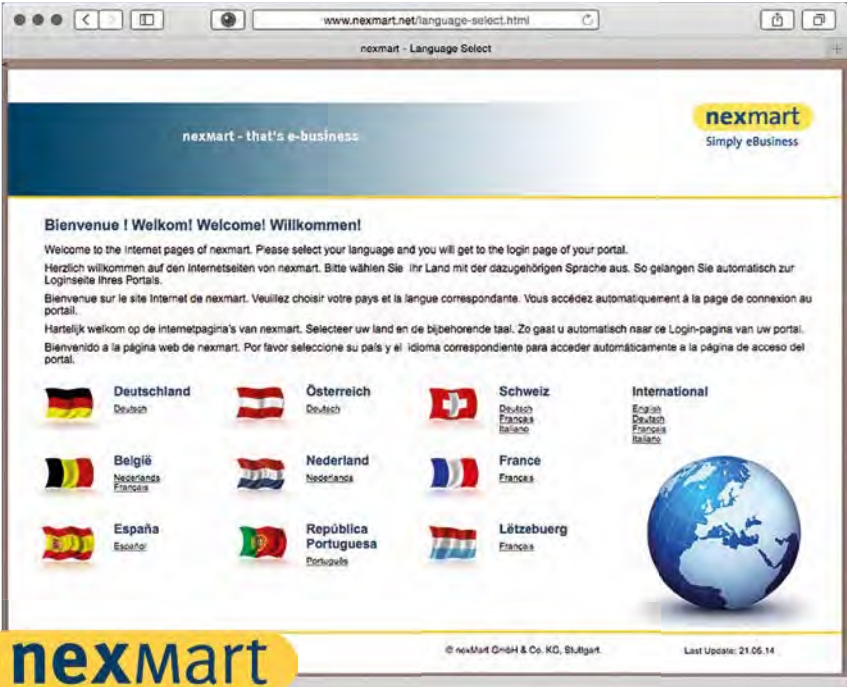


No matter when or where, Osborn accepts your order and sees to its punctual delivery.

**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.



## Certified Quality – Compliance with all common standards

In addition to the certification for over 700 products of our assortment by the German safety association "TÜV-Süd", we manufacture our products in accordance with EC standards EN 1083-1 and EN 1083-2 and our operations and product quality are monitored and certified by DIN EN ISO 9001:2008.

# 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 QUALITY



**First class tools – better results and satisfied customers.**

As longtime expert in mechanical surface treatment solutions we know, what makes a good tool: High performance, efficiency and safety. Osborn professional tools are the result of this pursuit. One example unifying all these factors is the Osborn LONGLIFE brush with its special filament.

**Osborn Tools – First Choice in Quality.**

## Osborn LONGLIFE – Performance Champion.

Min. 5-times less wire breakage and wear

Material friendly and non-stock removing

Available in Ø 60, 75, 80, 100 and 125 mm.

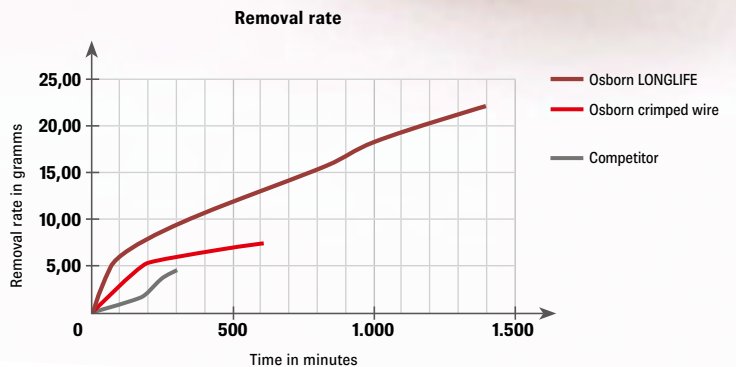


### Best of both worlds.

Extremely long lasting cup brush with LONGLIFE-filaments for a fine, satinised surface finish. Ideal for descaling and cleaning of larger surfaces.

**High performance of a knotted brush yet as material friendly as a crimped wire brush.**

### LONGLIFE in detail:



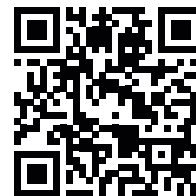
Testresult Osborn-LONGLIFE



# QUALITY & PERFORMANCE TESTS: TEST-ROBOT



Test robot at Burgwald/Germany plant



Quality

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)

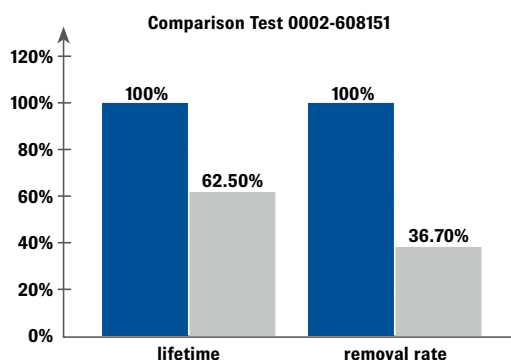
## Accurate testing without compromise.

At Osborn, we use a state-of-the-art industrial robot to determine the 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.

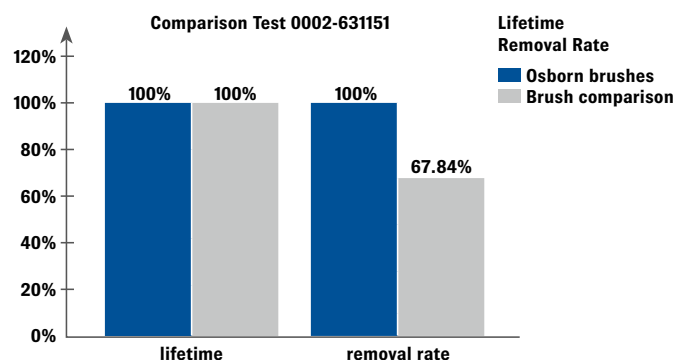
As well as providing pure performance data, the robot helps us through continuous monitoring to guarantee a consistent quality standard. Complex processes are easily replicated using realistic simulations to optimise the tool.

## Performance testing and comparison.

Quality demands, design, material and the 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.



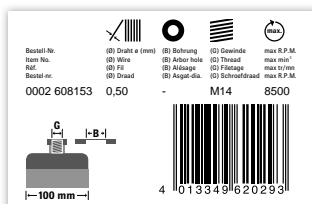
## 2. Quick info on trim materials:

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.



## 4. TÜV-Safety

Safety-Certification by TÜV-Süd for this product.



# 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

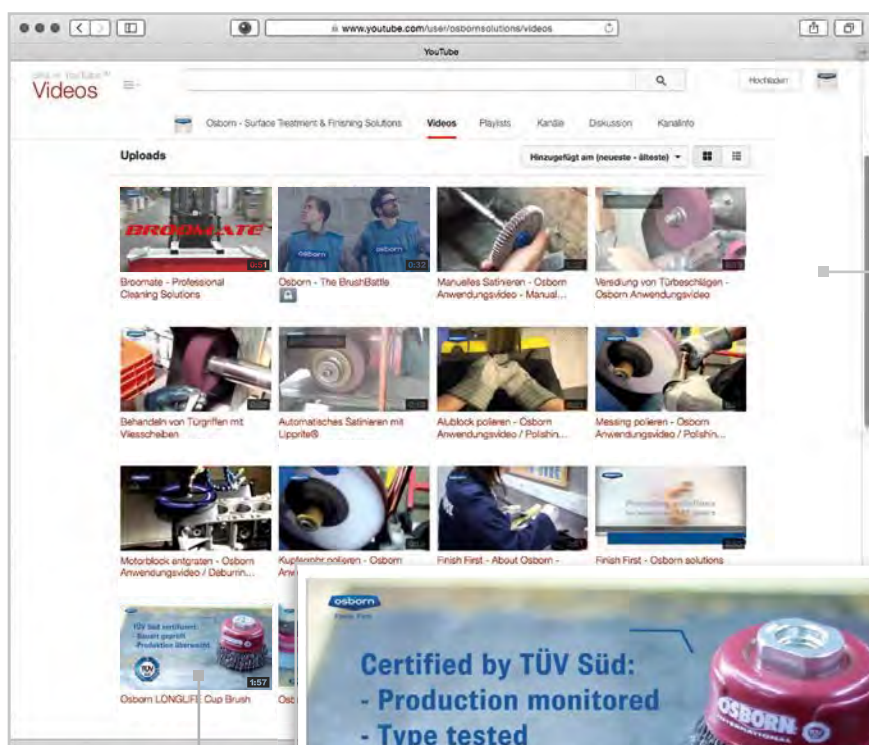
**Comprehensive product and application information, tips and suggested solutions for a professional surface treatment – available any time on the Osborn YouTube channel.**

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.



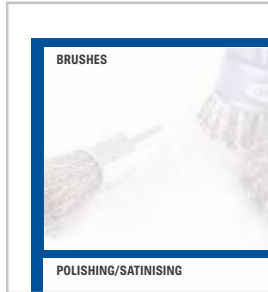
# Product overview

## 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.

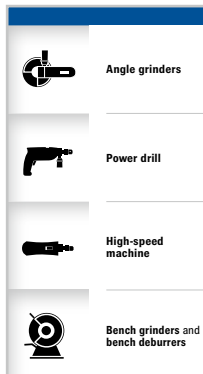
➔ See right-hand page.



### 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.

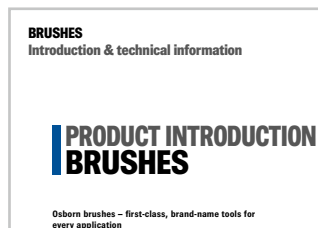


### Your tool in detail.

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.

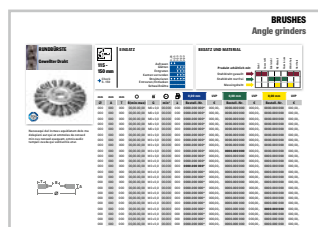
Additional, machine-specific information is located separately on the main pages **before** the products.



### 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.

**New in 2016**

**DIY Brush Set**



The set contains two wheel brushes, one end brush and two cup brushes.

➔ [More information on page 44](#)

**BRUSHES**

**Metal polishing kit**



The kit contains Metal Polish-emulsion, sponge and polishing cloth.

➔ [More information on page 115](#)

**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.

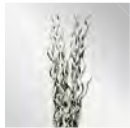


# Brushes

## 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.



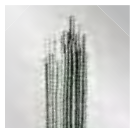
#### Steel wire, crimped

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



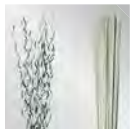
#### Steel wire, cord wire (long life)

- 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

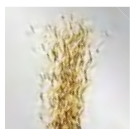
- Heavy duty steel wire with high tensile strength
- High elongation and long brush life
- For extreme brushing demands

➡ **PREMIUM** (see flap for details)



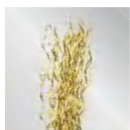
#### Stainless steel wire, crimped, straight or knotted

- 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

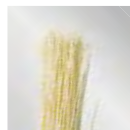
- Abrasive spheres on a flexible structure
- Self-centring
- Creation of surfaces with a high contact ratio (plateau finish)

➡ **PREMIUM** (see flap for details)



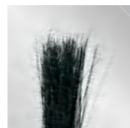
#### Brass-coated steel wire, cord wire

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



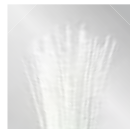
#### Tampico fibre

- 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



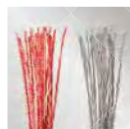
#### Synthetic filaments

- 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> <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> <li>• Steel wire, crimped (flexible)</li> <li>• Steel wire, knotted (aggressive)</li> <li>• Steel wire, straight (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 FOR ANGLE GRINDERS**



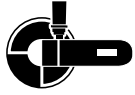
# Brushes

## 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.

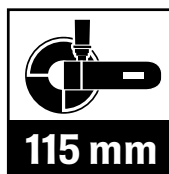
The most common speeds are colour-coded to clearly show the differences and for ease of identification:

Diameter:	Ø 115 mm	Ø 125 mm	Ø 150 mm	Ø 180 mm	Ø 230 mm
	(4 1/2")	(5")	(6")	(7")	(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

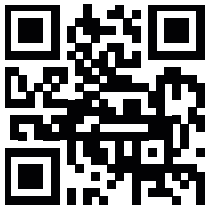


#### The machine information on the packaging

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.

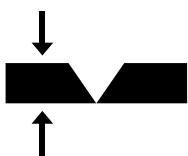
Osborn can provide the appropriate cleaning tool for any welding procedure and type of seam to be finished (root, filler or cover). Brushes are the ideal solution because they do not grind the material, unlike commonly used grinding wheels.

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



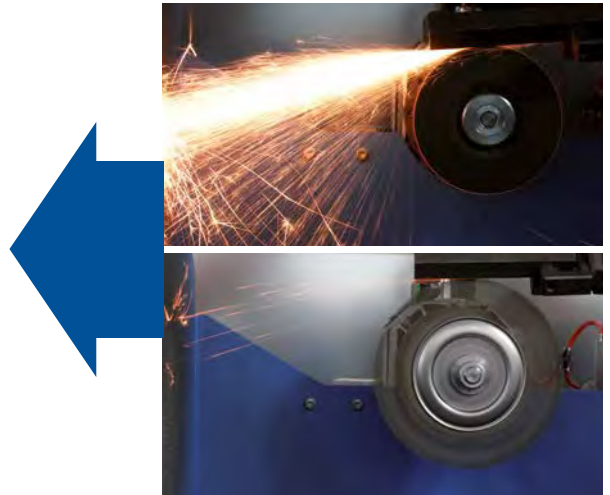
### Important information

#### Material care

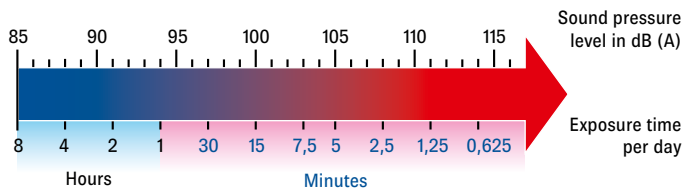
Wire brushes are not cutting tools. They remove residues such as slag, silicates and bluing but leave the original surface structure untouched. That saves time and money!

#### 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

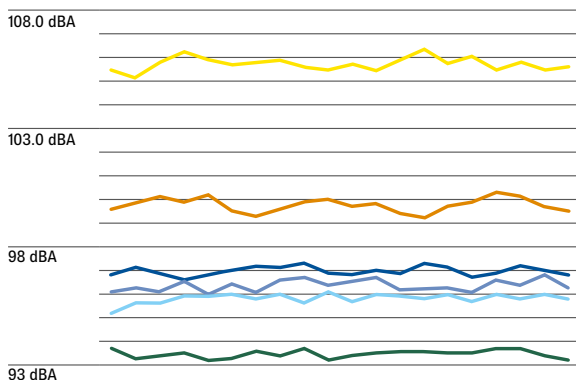


Sound pressure level and daily exposure times for maintaining a daily noise exposure level (Lex), 8 h of 85 dB(A) - upper value

#### 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

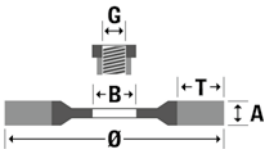
## Angle grinder

### 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"/>	<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 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>	10,85	<b>0002-611 151</b>	10,45		
100	12	20	22,2		F	12500	8	<b>0002-621 131</b>	16,20	<b>0002-621 151</b>	15,85		
115	12	23	22,2		F	12500	10	<b>0002-631 131</b>	18,65	<b>0002-631 151</b>	18,15		
115	12	23		M14x2,0		12500	6	<b>0402-631 131</b>	21,00	<b>0402-631 151</b>	20,45		
115	6	19	22,2			12500	10	<b>9502-626 301</b>	24,10	<b>9502-626 501</b>	23,45		
125	13	28	22,2		F	12500	8	<b>6152-631 131</b>	21,00	<b>2202-631 151</b>	20,45		
125	13	28		M14x2,0		12500	8	<b>1402-631 131</b>	23,30	<b>1402-631 151</b>	22,50		
125	6	24	22,2			12500	8	<b>9502-626 311</b>	26,00	<b>9502-626 251</b>	25,05		
150	13	37	22,2		F	12000	5	<b>0002-641 131</b>	24,55	<b>0002-641 151</b>	22,20	<b>0002-641 181</b>	20,85
178	13	42	22,2		F	10000	6	<b>0002-653 131</b>	28,50	<b>0002-653 151</b>	28,15	<b>0002-653 181</b>	27,00
178	6	38	22,2			12000	12	4602-626 131	35,90				
230	6	57	22,2			6500	1			4306-026 904	45,70		
230	13	58	22,2			8500	1			9502-664 151	36,40		

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>	32,20		
115	12	23	22,2		F	12500	4	<b>0002-631 331</b>	38,95	<b>0002-631 351</b>	35,10		
115	12	23		M14x2,0		12500	4					4902-631 351 *	46,35
115	12	23				12500	4	0402-631 331	41,55	<b>0402-631 351</b>	37,75		
125	6	24	22,2			12000	3	4602-626 331	40,50	<b>9502-626 651</b>	36,80	4902-626 651 *	46,05
125	13	28	22,2		F	12500	3	<b>2202-631 331</b>	41,65	<b>2202-631 351</b>	38,15		
125	13	28		M14x2,0		12500	3					4912-631 351 *	48,90
125	13	28				12500	3	1402-631 331	43,70	<b>1402-631 351</b>	40,70		
150	13	37	22,2		F	12000	3			<b>0002-641 351</b>	58,45		
178	13	42	22,2		F	12000	3			<b>0002-653 351</b>	71,25		
178	13	42				10000	3					4902-653 351 *	102,00
178	6	38	22,2			12000	12	4612-626 331	50,75				

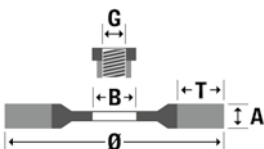
\* TÜV-Certification planned.

### 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"/>	<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 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>	23,95	9906-026 012	23,05		
100	13	22	5/8"		F	18000	12	9906-026 116	20,00	<b>9906-026 117</b>	19,20		
100	13	22	7/8"		F	18000	12	9906-026 280	20,25	9906-026 281	19,20		
100	6	20		M14x2,0		18000	12			9906-026 365	22,90		
115	6	19	7/8"			12500	12			<b>2906-026 501</b>	22,20		
115	6	19		M14x2,0		12500	12	0002-626 305	25,40	0002-626 505	24,15		
125	6	24	7/8"			12500	12	0002-626 311	26,00	<b>0002-626 251</b>	24,50		

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>	31,10				
125	6	24	7/8"			12500	12	<b>0002-626 651</b>	36,80				

Continue next page.

# Brushes

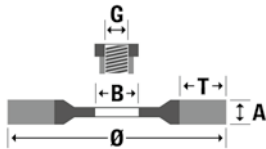
## Angle grinder

**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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 →  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

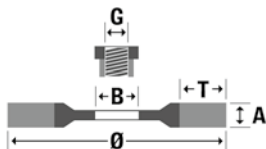
mm						Osborn 0,35		Osborn 0,50		Osborn 0,63	
Ø	A	T	B	G	Adapt.	min-1	pcs.	Order-No.	RRP €	Order-No.	RRP €
150	6	38	7/8"		F	12000	12			9906-026 501	25,85
150	25	38	7/8"		F	12000	12	9906-026 247	25,45		
150	6	38		M14x2,0		12000	10			9906-026 500	27,75
150	13	38	7/8"			12000	12	9906-026 248	42,40	9906-026 249	23,35
165	6	29	7/8"				12			0002-626 061	27,20
165	13	32	7/8"		F	12000	12			9886-026 039	27,45
171	6	29	7/8"		F	12000	12			9706-026 904	37,85
178	6	38	22,2		F	12000	12			9906-026 051	32,80
178	6	38		M14x2,0		12000	10			9906-026 053	34,45

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



**TUV**

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



**USAGE**

**115-150**

roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 →  Steel  Cast-steel  Stainless steel  Non-ferrous metal  Aluminium  Soft wood  Hard wood

mm						0,35		0,50		RRP	
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	12	23	22,2	12500	10	1202-631 131	17,95	1202-631 151	17,50		
125	13	28	22,2	12500	8	1212-631 131	20,25	1212-631 151	19,70		
178	13	42	22,2	12500	6	1202-653 131	27,45	1202-653 151	27,05		

# Brushes

## Angle grinder

**Wheel brushes**  
knotted Osborn wire plasticbonded



**PREMIUM**

**USAGE**

**125-180**

roughening	<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"/>
edge honing	<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"/>
slag residue	<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"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

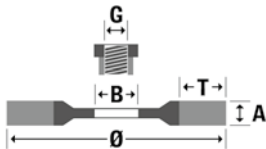
Steel wire twist knot →

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

mm							Osborn 0,50	RRP	Osborn 0,50 *	RRP		
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	6	19		7/8"	12000	10	5402-921 873	39,75				
125	6	24	22,2		8500	1	<b>9802-921 873</b>	44,65	9812-921 873	48,30		
178	6	38	22,2		8500	1	<b>9802-921 875</b>	60,25	9812-921 875	62,95		

\* pointed model. Other articles regular.

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



**Wheel brushes**  
crimped wire plasticbonded



**PREMIUM**

**USAGE**

**150-180**

roughening	<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"/>
edge honing	<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"/>
slag residue	<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"/>
blue color residue	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**TRIM AND MATERIAL**

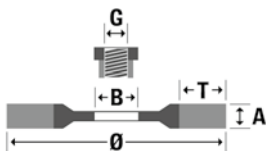
Products available with:

Steel wire crimped →

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

mm							0,38	RRP				
Ø	A	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
115	5	27		M14x2,0	12000	6	5402-921 051	38,75				
125	6	27		M14x2,0	12000	1	<b>4102-921 051</b>	43,60				
150	5	29	22,2		8500	12	<b>0002-921 874</b>	57,30				
178	5	41	22,2	M14x2,0	8500	10	0002-921 876	59,40				
178	5	41	22,2		8500	12	<b>0002-921 875</b>	58,75				
178	5	41	22,2	5/8"	8500	10	0002-921 889	60,50				
178	3	41	22,2		8000	1	7702-921 875	56,25				

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

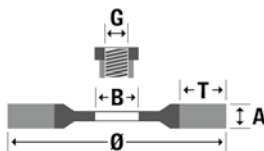


# Brushes

## 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:

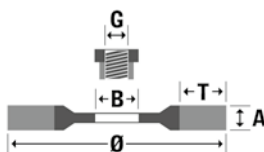
Steel wire crimped →

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	13,15					



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	27,80	5411-401 913	27,80	5401-401 913	27,80

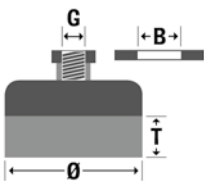
# Brushes Angle grinder

## Cup brushes

### knotted wire



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



### 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	13,15	1602-608 151	12,10		
65	20		M10x1,25	12500	10	2352-608 131	13,15	2352-608 151	12,10		
65	20		M10x1,5	12500	10	<b>0102-608 131</b>	13,15	<b>0102-608 151</b>	12,10		
65	20		M14x2,0	12500	10	<b>0002-608 131</b>	13,15	<b>0002-608 151</b>	12,10		
65	30		M14x2,0	12500	10	<b>3892-608 131</b> **	15,80				

\*\* 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	26,80				
65	20		M10x1,25	12500	6	2352-608 331	27,25	2352-608 351	26,40		
65	20		M10x1,5	12500	6	<b>0102-608 331</b>	27,25	<b>0102-608 351</b>	26,40		
65	20		M14x2,0	12500	6	<b>0002-608 331</b>	27,25	<b>0002-608 351</b>	26,40	<b>0442-608 351</b> *	27,05

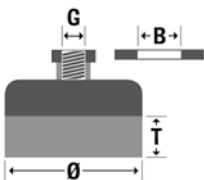
\* TÜV-Certification planned.

## 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	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	20		M14x2,0	11000	10	<b>9908-608 132</b>	24,70	<b>9908-608 152</b>	24,15		
75	20		5/8 Zoll	11000	10	9918-608 132	24,70	9918-608 152	24,15		

# Brushes

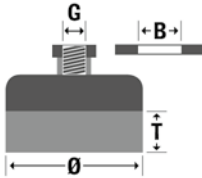
## Angle grinder

### Cup brushes

#### knotted wire



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.



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	9906-033 125	29,20				
90	32	65	5/8"	7500	6	9906-033 126	29,20				
150	45	45	M14x2,0	6000	1	9906-033 016	67,15				
150	45	70	M14x2,0	6000	1			9906-033 022	64,10		
150	45	70	5/8"	6000	1			9906-033 021	64,10		
150	45	75	M14x2,0	6000	1	9906-033 031	78,10				
150	45	75	5/8"	6000	1	9906-033 030	78,10				

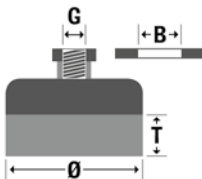
\* two-rowed

### Cup brushes

#### knotted wire



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



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	31,00	0802-608 153	28,45	0802-608 183	27,80
80	20		M14x2,0	8500	6	0002-608 133	31,00	0002-608 153	28,45	0002-608 183	27,80
100	20		M14x2,0	8500	3	0002-608 134	36,00	0002-608 154	33,75	0002-608 184	32,75
100	20		5/8 Zoll	8500	3	0802-608 134	36,00	0802-608 154	33,75	0802-608 184	32,75
120	20		M14x2,0	6500	4	0002-608 135	42,75	0002-608 155	41,50	0002-608 185	40,55
120	20		5/8 Zoll	6500	4	0802-608 135	42,75	0802-608 155	41,50	0802-608 185	40,55

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	20		M14x2,0	8500	3	0002-608 333	66,10	0002-608 353	60,95	0442-608 353	61,15
100	20		M14x2,0	8500	3	0002-608 334	69,15	0002-608 354	67,05	0442-608 354	67,40

\* TÜV-Certification planned.

# Brushes

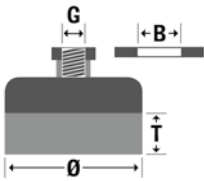
## Angle grinder

### Cup brushes

#### crimped wire



Material friendly. Soft cleaning brushes for surface finishing.



#### USAGE

115-125

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 crimped →  
Stainless steel →  
Brass wire →

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

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	10,00		
60	21	16		12500	4					1602-613 361	15,05
60	21		M10x1,25	12500	10	5262-613 141	10,95				
60	21		M10x1,5	12500	10	0102-613 141	10,95	<b>0102-613 161</b>	10,00		
60	21		M14x2,0	12500	10	<b>0002-613 141</b>	10,95	<b>0002-613 161</b>	10,00		
60	21		M14x2,0	12500	4					<b>0002-613 361</b>	15,05
75	23	16		12500	10	1602-613 142	17,00	1602-613 162	16,00		
75	23	16		12500	3					1602-613 362	27,75
75	23		M10x1,25	12500	10	5652-613 142	17,00	5652-613 162	16,00		
75	23		M10x1,5	12500	10	0102-613 142	17,00	<b>0102-613 162</b>	16,00		
75	23		M14x2,0	12500	10	<b>0002-613 142</b>	17,00	<b>0002-613 162</b>	16,00		
75	23		M14x2,0	12500	4					<b>0002-613 362</b>	27,75
75	23		5,8 Zoll	12500	10	0802-613 142	17,00	0802-613 162	16,00		
75	23		5,8 Zoll	12500	4					0802-613 362	27,75

mm						0,30 brass-coated	RRP	0,30	RRP	0,30	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
60	21	22,2	M10x1,25	12500	10			4912-613 561 *	12,85		
60	21		M14x2,0	12500	4	<b>0442-613 361 *</b>	16,25				
60	21	22,2	M14x2,0	12500	10			4902-613 561 *	12,85		
75	25		M14x2,0	12500	4	<b>0442-613 362 *</b>	28,60				
75	25	22,2	M14x2,0	12500	10			4902-613 562 *	23,10		

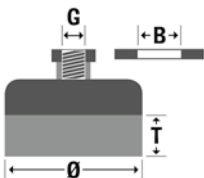
\* TÜV-Certification planned.

### Cup brushes

#### crimped wire



Material friendly. Soft cleaning brushes for surface finishing.



#### USAGE

150-230

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 crimped →  
Stainless steel →  
Brass wire →

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

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>	19,25	<b>0002-613 163</b>	18,80		
80	25		5/8 Zoll	8500	5	0802-613 143	19,25	0802-613 163	18,80		
80	25		M14x2,0	8500	5					<b>0002-613 193</b>	17,70
100	30		M14x2,0	8500	3	<b>0002-613 144</b>	24,45			<b>0002-613 194</b>	22,70
100	30		M14x2,0	8500	4			<b>0002-613 164</b>	23,10		
100	30		5/8 Zoll	8500	3	0802-613 144	24,45	0802-613 164	23,10	0802-613 194	22,70
125	30		M14x2,0	6500	4	<b>0002-613 145</b>	33,80	<b>0002-613 165</b>	32,25	<b>0002-613 195</b>	30,60
125	30		5/8 Zoll	6500	4			0802-613 165	32,25	0802-613 195	30,60
150	40		M14x2,0	4500	3	<b>0002-613 146</b>	38,65	<b>0002-613 166</b>	35,25	<b>0002-613 196</b>	34,70
150	40		5/8 Zoll	4500	3	0802-613 146	35,90	0802-613 166	35,25	0802-613 196	34,70

mm						0,30	RRP	0,30 1.4401	RRP	0,30	RRP
Ø	T	B	G	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80	25		M14x2,0	8500	4	<b>0002-613 363</b>	32,65	<b>0442-613 363 *</b>	30,25		
80	25	22,2	M14x2,0	8500	5					4902-613 563 *	26,35
80	25		5/8 Zoll	8500	4	0802-613 363	32,65				
100	25		M14x2,0	8500	3	<b>0002-613 364</b>	47,35	<b>0442-613 364 *</b>	47,70		
100	30	22,2	M14x2,0	8500	4					4912-613 564 *	36,40
100	30		5/8 Zoll	8500	3	0802-613 364	47,35				
125	30		5/8 Zoll	6500	2	0802-613 365	55,55				
125	30		M14x2,0	6500	2	<b>0002-613 365</b>	59,60	<b>0442-613 365 *</b>	61,00		

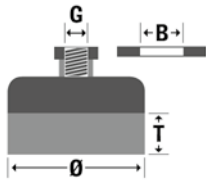
\* TÜV-Certification planned.

# Brushes

## Angle grinder



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



**115-230**

**USAGE**

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

**TRIM AND MATERIAL**

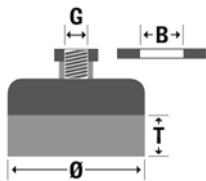
Products available with:

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

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>	10,55				
75	25	M14x2,0	12500	10	<b>3912-613 163</b>	15,95				
80	25	M14x2,0	12500	5	<b>3902-613 163</b>	19,40				
100	22	M14x2,0	8500	4	<b>3902-613 164</b>	23,70				
125	25	M14x2,0	6500	4	<b>3902-613 165</b>	33,10				



Recommended speed 4.000RPM.<sup>-1</sup>.



**150**

**USAGE**

	0,26	<input type="checkbox"/>
roughening	0,35	<input type="checkbox"/>
deburring	0,50	<input type="checkbox"/>
edge honing	0,60	<input type="checkbox"/>
descaling/paint stripping	0,80	<input type="checkbox"/>
slag residue	<input type="checkbox"/>	<input type="checkbox"/>
silicates residue	<input type="checkbox"/>	<input type="checkbox"/>
blue color residue	<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					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>	52,45	<b>1802-607 914</b>	53,80
100	25		M14x2,0	8500	<b>6402-608 914</b>	53,85	<b>6412-608 914</b>	53,85	<b>1802-608 914</b>	55,20



# Brushes

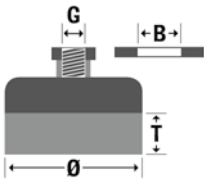
## Angle grinder

### Cup brushes

#### abrasive filament



Particularly suitable for finishing or de-burring.



#### USAGE

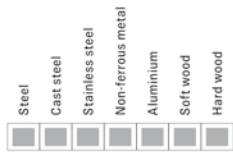
150-180

	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 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 →



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>	35,35	<b>9311-614 916</b>	35,35	<b>9321-614 916</b>	35,35

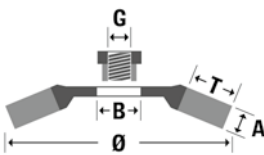
mm							Novofil 80	RRP
Ø	A	T	G	min-1	pcs.		Order-No.	€
130	70	50	M14x2,0	2500	4		<b>9331-614 916</b>	35,35

### Bevel brushes

#### knotted wire



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



#### USAGE

115-125

	0,28	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	15,60
100	13	22		M10x1,25	12500	10	4802-622 131 *	15,90	2352-622 151	15,60
100	13	22		M10x1,5	12500	10	0102-622 131	16,10	0102-622 151	15,60
100	13	22		M14x2,0	12500	10	<b>0002-622 131</b>	16,10	<b>0002-622 151</b>	15,60
115	15	20	16		12500	10			1602-632 151	22,35
115	15	20		M14x2,0	12500	10	<b>0002-632 131</b>	23,10	<b>0002-632 151</b>	22,35
115	15	20		5/8 Zoll	12500	10	0802-632 131	23,10	0802-632 151	22,35
125	15	23		M14x2,0	12500	10	<b>3602-632 131</b>	26,45	<b>2902-632 151</b>	24,55
125	5	23		M14x2,0	12500	10			<b>4302-632 151 *</b>	22,05

\* 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>	19,10	<b>0002-623 151</b>	18,45

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	23,35	2352-622 351	22,85		
100	13	22		M10x1,5	12500	5	0102-622 331	23,40	0102-622 351	22,85		
100	13	22		M14x2,0	12500	5	<b>0002-622 331</b>	23,40	<b>0002-622 351</b>	22,85	<b>0442-622 351 *</b>	23,15
115	15	20		M14x2,0	12500	5	<b>0002-632 331</b>	40,25	<b>0002-632 351</b>	39,50	<b>0442-632 351 *</b>	39,25
115	15	20		5/8 Zoll	12500	5	0802-632 331	40,25	0802-632 351	39,50		
125	15	23		M14x2,0	12500	10	3602-632 331	41,55	3602-632 351	40,45		

\* 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	26,85	0002-623 351	26,25

# Brushes

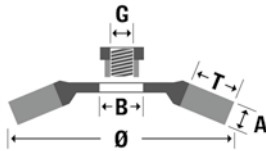
## Angle grinder

### Bevel brushes

crimped wire



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



### USAGE

115

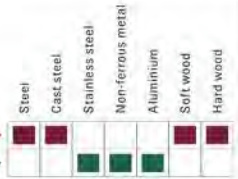
	0,26				
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
edge honing	<input type="checkbox"/>	<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 crimped

Stainless steel



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	16,00		
100	20	10		M10	12500	10			2352-512 161	12,10		
100	20	20		M10x1,5	12500	10			0102-512 162	16,00	0002-512 062	16,30
100	20	20		M14x2,0	12500	10			0102-512 161	12,10		
100	10	20		M10x1,5	12500	10			0002-512 162	16,00	0002-512 061	12,45
100	10	20		M14x2,0	12500	10			0002-512 161	12,10		
115	10	29		M14x2,0	12500	5	0002-513 141	14,20	0002-513 161	12,90		
125	10	25		M14x2,0	12500	10	0002-514 141	15,95	0002-514 161	14,20		

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	38,60	2352-512 362	32,95			
100	20	20	M10x1,5	12500	5	0102-512 342	36,55	0102-512 362	32,95			
100	20	20	M14x2,0	12500	5	0002-512 342	38,60	0002-512 362	32,95			
100	10	20	M14x2,0	12500	5			0002-512 361	25,80			
115	10	29	M14x2,0	12500	5	0002-513 341	28,20	0002-513 361	26,45	0442-513 361	29,25	
125	10	25	M14x2,0	12500	5	0002-514 341	30,05	0002-514 361	28,90	0442-514 361	31,30	

### F-adapter



For reduction of arbor holes.



inch			RRP					
Inner Ø	Outer Ø	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
3/8"	5/8"	1	0003-000 222	0,95				
1/2"	5/8"	1	0003-000 223	0,95				
3/8"	7/8"	1	0003-000 242	0,95				
7/8"	1/2"	1	0003-000 243	0,95				
7/8"	5/8"	1	0003-000 244	1,60				

**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.



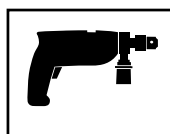
##### Flap wheel brushes

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.

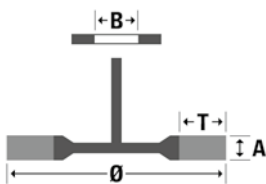
# Brushes Power drills



## 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		mm					
		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		Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Products available with:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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"/>

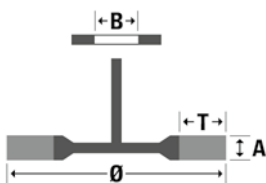
mm		0,35	RRP	0,50	RRP	0,50	RRP				
Ø	A	Order-No.	€	Order-No.	€	Order-No.	€				
75	12	18	6	20000	12	<b>0202-611 131</b>	11,35	<b>0202-611 151</b>	11,20	<b>0202-611 351</b>	17,40



## 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						
		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		Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Products available with:		<input type="checkbox"/>	<input 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"/>
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		0,15	RRP	0,20	RRP	0,30	RRP	
Ø	A	Order-No.	€	Order-No.	€	Order-No.	€	
20	6	4	20000	10	<b>0002-501 132</b>	8,65	<b>0002-501 142</b>	8,30
20	9	4	20000	10			<b>0002-501 143</b>	11,35
30	6	6	20000	10			<b>0002-502 141</b>	5,60
30	9	6	20000	10	<b>0002-502 132</b>	8,30	<b>0002-502 142</b>	6,90
30	12	6	20000	10			<b>0002-502 143</b>	9,80
40	7	10	18000	10			<b>0002-503 141</b>	5,35
40	11	10	18000	10	<b>0002-503 132</b>	8,70	<b>0002-503 142</b>	7,70
40	16	10	18000	10			<b>0002-503 143</b>	10,10
50	10	13	15000	10			<b>0002-504 141</b>	5,70
50	17	13	15000	10	<b>0002-504 132</b>	9,10	<b>0002-504 142</b>	7,90
50	23	13	15000	10			<b>0002-504 143</b>	10,55
60	12	15	15000	10			<b>0002-505 141</b>	5,85
60	18	15	15000	10	<b>0002-505 132</b>	10,25	<b>0002-505 142</b>	8,65
60	23	15	15000	10			<b>0002-505 143</b>	12,65
70	11	15	15000	10			<b>0002-506 141</b>	6,00
70	18	15	15000	10	<b>0002-506 132</b>	11,85	<b>0002-506 142</b>	9,45
70	23	15	15000	10			<b>0002-506 143</b>	12,85
80	19	20	15000	10			<b>0002-507 142</b>	9,80
							<b>0002-504 161</b>	5,20
							<b>0002-504 162</b>	7,20
							<b>0002-504 163</b>	10,20
							<b>0002-505 161</b>	5,50
							<b>0002-505 162</b>	7,90
							<b>0002-505 163</b>	11,25
							<b>0002-506 161</b>	5,90
							<b>0002-506 162</b>	8,15
							<b>0002-506 163</b>	11,50

Continue next page.

# Brushes

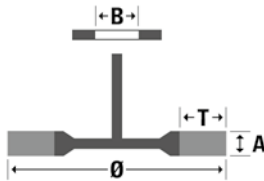
## Power drills

### 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		⌀	Ⓜ	Ⓜ	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	0002-501 332	16,75	0002-501 342	15,35		
20	9	4	20000	10	0002-501 333	19,10	0002-501 343	18,05		
30	6	6	20000	10			0002-502 341	7,15		
30	9	6	20000	10	0002-502 332	9,75	0002-502 342	9,15		
30	12	6	20000	10	0002-502 333	14,95	0002-502 343	14,65		
40	7	10	18000	10	0002-503 331	9,15	0002-503 341	8,85		
40	11	10	18000	10	0002-503 332	14,30	0002-503 342	13,20		
40	16	10	18000	10	0002-503 333	18,95	0002-503 343	18,60		
50	10	13	15000	10			0002-504 341	7,70	0002-504 361	7,10
50	17	13	15000	10	0002-504 332	16,00	0002-504 342	14,95	0002-504 362	14,65
50	23	13	15000	10			0002-504 343	19,90	0002-504 363	19,10
60	12	15	15000	10			0002-505 341	8,70	0002-505 361	7,40
60	18	15	15000	10	0002-505 332	17,25	0002-505 342	16,55	0002-505 362	16,00
60	23	15	15000	10			0002-505 343	19,55	0002-505 363	19,90
70	11	15	15000	10			0002-506 341	8,85	0002-506 361	8,60
70	18	15	15000	10	0002-506 332	19,05	0002-506 342	17,00	0002-506 362	16,25
70	23	15	15000	10			0002-506 343	20,25	0002-506 363	21,20
80	10	20	12000	10					5162-507 361	11,65
80	19	20	12000	10			0002-507 342	17,05	0002-507 362	18,15

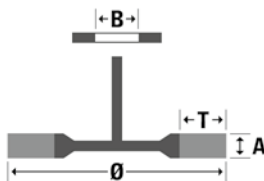
mm		⌀	Ⓜ	Ⓜ	0,20	RRP				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
20	9	4	20000	10	0002-501 542	15,25				
30	9	6	20000	10	0002-502 542	8,20				
40	11	10	18000	10	0002-503 542	9,90				
50	17	13	15000	10	0002-504 542	11,85				
60	18	15	15000	10	0002-505 542	13,00				
70	18	15	15000	10	0002-506 542	14,60				
80	19	20	12000	10	0002-507 542	17,80				

### 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 straight	<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	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	7	10	4500	20	0003-600 211	2,85	0008-600 221	2,40		
63	9	13	4500	20	0003-600 311	3,10	0008-600 321	2,70		
75	10	16	4500	10	0008-600 411	3,10	0008-600 421	3,10		
75	15	16	4500	10			0008-600 422	5,15		
100	12	22	4500	10	0008-600 511	4,75	0008-600 521	4,50		
100	17	22	4500	10			0008-600 522	6,70		

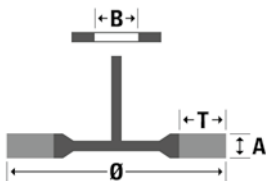
mm		⌀	Ⓜ	Ⓜ	0,20	RRP	0,30	RRP		
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	10	16	4500	10	0008-600 431	7,75	0008-600 432	6,95		
100	10	22	4500	10	0008-600 531	10,75				

### 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 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 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

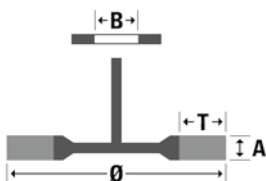
mm						<b>0,25 Cordwire</b>	<b>RRP</b>				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
80	35	25	4000	10	<b>0908-507 061</b>	18,05					

### 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 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 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

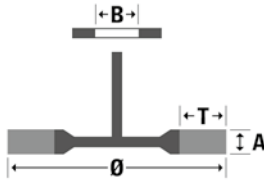
mm						<b>0,30</b>	<b>RRP</b>				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
63	8	20	15000	12	<b>0002-911 941</b>	16,60					
76	8	26	15000	12	<b>0002-911 951</b>	17,00					

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

**TRIM AND MATERIAL**

Products available with:

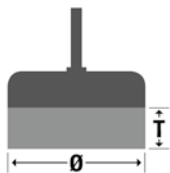
Abrasive bristle →

<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		max	min-1	pcs.	Grit 80 Red	RRP	Grit 180 Blue	RRP
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€
75	10	16	4500	10	0802-600 491	9,70	0182-600 491	9,70
100	10	23	4500	10	0802-600 591	10,55	0182-600 591	10,55



High performance cup brushes for demanding cleaning work.



**USAGE**

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

**TRIM AND MATERIAL**

Products available with:

Steel wire twist knot →

<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		max	min-1	pcs.	0,50	RRP
Ø	T	min-1	pcs.	Order-No.	€	Order-No.
65	23	6000	10	1004-608 151	12,05	

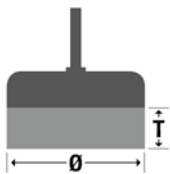


# Brushes Power drills

## Cup brush with plastic body crimped wire



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



**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 →

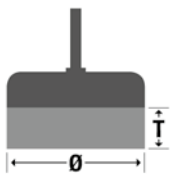
Stahl	Gussstahl	Edelstahl	NE-Metall	Aluminium	Weichholz	Hartholz
<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm				0,25	RRP				
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
30	25	10000	10	<b>8713-613 351</b>	12,85				
40	30	10500	10	<b>8703-613 351</b>	19,00				
50	30	10500	10	<b>8723-613 351</b>	20,00				

## Cup brushes crimped wire



Do-it-yourself type for max. 4500 min<sup>-1</sup>.



**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
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>



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>	2,80	<b>0008-600 821</b>	2,75	<b>0023-600 851</b>	4,05
75	20	4500	10	<b>0008-600 911</b>	3,45	<b>0008-600 921</b>	3,35	0023-600 951	10,80

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>	7,25	<b>0008-600 832</b>	6,70		
75	20	4500	10	0013-600 931	10,80	<b>0008-600 361</b>	9,85		

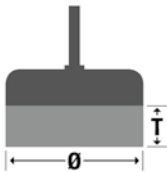
# Brushes

## 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 →

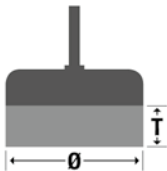
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		min-1	pcs.	0,30	RRP				
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	15	15000	12	0002-930 821	19,10				

**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 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: 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	0802-600 891	9,30	0182-600 891	9,30		
75	23	4500	10	0802-600 991	11,15	0182-600 991	11,15		

# 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	<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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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>	4,95	<b>0003-509 161</b>	4,40	<b>0003-509 191</b>	4,35
17	25	45	18000	12	<b>0002-509 142</b>	5,05	<b>0002-509 162</b>	4,60	<b>0002-509 192</b>	4,50
25	25	50	18000	12	<b>0002-509 143</b>	5,75	<b>0002-509 163</b>	5,50	<b>0002-509 193</b>	5,40
30	25	45	15000	12	<b>0002-509 144</b>	8,85	<b>0002-509 164</b>	8,30	<b>0002-509 194</b>	8,15

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>	7,30	<b>0003-509 361</b>	6,05
17	25	45	18000	12	<b>0002-509 342</b>	8,05	<b>0002-509 362</b>	7,05
25	25	50	18000	12	<b>0002-509 343</b>	10,00	<b>0002-509 363</b>	8,95
30	25	45	15000	12	<b>0002-509 344</b>	14,35	<b>0002-509 364</b>	13,45

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>	7,10	<b>0003-509 561</b>	5,90
17	25	45	18000	12	<b>0002-509 542</b>	7,75	<b>0002-509 562</b>	6,95
25	25	50	18000	12	<b>0002-509 543</b>	9,65	<b>0002-509 563</b>	7,10
30	25	45	15000	12	<b>0002-509 544</b>	12,75	<b>0002-509 564</b>	10,45

## 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	<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 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.	€
12	20	45	4500	20	<b>0008-509 161</b>	2,55		
17	25	45	4500	12	<b>0008-509 162</b>	2,85		
25	25	50	4500	12			<b>0008-509 363</b>	5,90
25	30	50	4500	12	<b>0008-509 163</b>	3,05		
30	35	50	4500	12	<b>0008-509 164</b>	3,60		


# Brushes

## Power drills

**End brushes**  
**crimped wire**  
**plastic-bonded**




**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	12,95				
24	23	23	43	15000	12	0002-930 907	13,75				
31	23	29	43	15000	12	0002-930 912	16,50				


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



**End brushes**  
**abrasive filament**




**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	4,80	1812-509 913	4,80		

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 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 type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

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						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>	21,70	3202-509 911	21,70
15	25	15	43	5000	12	<b>1202-509 912</b>	23,05	<b>1802-509 912</b>	23,05	<b>3202-509 912</b>	23,05
22	25	22	50	5000	12	<b>1202-509 913</b>	26,60	<b>1802-509 913</b>	26,60	3202-509 913	26,60
28	25	28	45	5000	12	1202-509 914	31,50	<b>1802-509 914</b>	31,50	3202-509 914	31,50

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 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 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

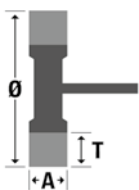
**TRIM AND MATERIAL**

Products available with:

Steel wire crimped →

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

mm					0,30	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>	9,10	<b>0004-401 052</b>	9,10			




# Brushes

## Power drills

**Flap wheel brushes**  
abrasive / natural Fibre




**USAGE**



	40/46									
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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<input type="checkbox"/>

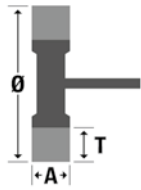
**TRIM AND MATERIAL**

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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Natural bristle	<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"/>	<input type="checkbox"/>

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


mm					Grit 80 Red	RRP	Grit 180 Blue	RRP	Fibre	RRP
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	23	25	3500	5	0001-401 912	12,95	0011-401 912	12,95	0004-401 942	9,20



**DIY brush set**  
5 pieces



**USAGE**



	0,15									
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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<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"/>	<input 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"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
--------------------	-------------------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

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

		DIY brush set	RPM
min-1	pcs.	Order-No.	€
4500	10	1418-600 005	7,50

0,30	Ø
wheel brush	50
wheel brush	75
end brush	25
cup brushes	50
cup brushes	70

The set contains two wheel brushes, one end brush and two cup brushes.

**NEW!**

# Brushes

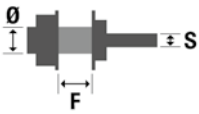
## Power drills

### Drive arbor

#### Type I



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



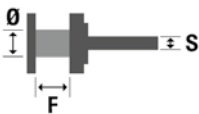
		mm			RRP					
Ø	inch	F	S	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10		20	6	1	<b>0003-000 100</b>	10,00				
13		20	6	1	<b>0003-000 130</b>	16,65				
12,7	1/2 Zoll	20	6	1	<b>0004-000 127</b>	13,30				

### 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>	18,95				
12,7	1/2 Zoll	11	6	1	<b>9907-075 129</b>	18,95				
15,9	5/8 Zoll	11	6	1	<b>9907-075 130</b>	18,95				

# Brushes

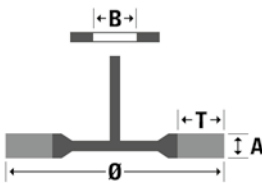
## Power drills

### 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 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



mm		max	min-1	pcs.	0,30	RRP				
Ø	A	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	7	10	4500	20	1008-600 221	2,40				
75	10	22	4500	10	1008-600 421	3,10				
100	12	22	4500	10	1008-600 521	4,50				

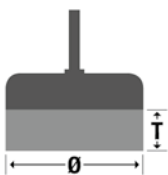


### Cup brushes

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 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



mm		max	min-1	pcs.	0,30	RRP				
Ø	T	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
50	17		4500	20	1008-600 821	2,75				
75	20		4500	10	1008-600 921	3,35				





# Brushes Power drills

## 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 checked="" 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 checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm			min-1	pcs.	0,30	RRP				
Ø	T	L			Order-No.	€	Order-No.	€	Order-No.	€
25	30	50	4500	12	<b>1008-509 163</b>	3,05				

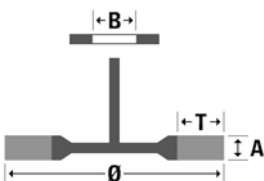


## Wheel brushes

### 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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			min-1	pcs.	0,50	RRP				
Ø	A	T			Order-No.	€	Order-No.	€	Order-No.	€
75	12	18	4500	12	<b>1008-611 151</b>	11,20				



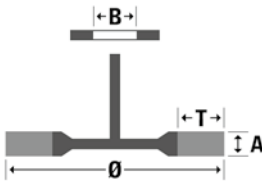
# Brushes

## Power drills

### Wheel brushes abrasive filament



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



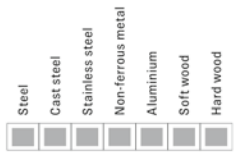
#### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input 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 →



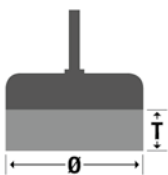
mm				Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
75	10	16	4500	1018-600 491	9,70	1008-600 491	9,70		



### Cup brushes abrasive filament



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



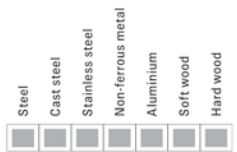
#### USAGE

	40/46	60	80	120	180	320	Fibre
roughening	<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 →



mm				Grit 80 Red	RRP	Grit 180 Blue	RRP		
Ø	T	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	23	4500	10	1018-600 991	11,15	1008-600 991	11,15		



### Shaft for hexagonal brushes




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




		RRP				
pcs.	Order-No.	€	Order-No.	€	Order-No.	€
5	<b>1008-000 121</b>	5,90				

**Brushes**  
**Power drills**



 **DRONCO**  
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**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.



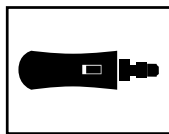
##### End brushes

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



**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"/>

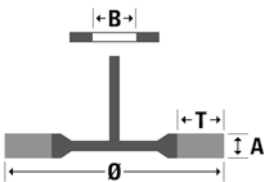
**TRIM AND MATERIAL**

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 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	B	Shank	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
75	12	18		6	20000	12	<b>0202-611 131</b>	11,35	<b>0202-611 151</b>	11,20	<b>0202-611 351</b>	17,40

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**

	0,15	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 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>	8,65	<b>0002-501 142</b>	8,30		
20	9	4	20000	10				<b>0002-501 143</b>	11,35		
30	6	6	20000	10				<b>0002-502 141</b>	5,60		
30	9	6	20000	10		<b>0002-502 132</b>	8,30	<b>0002-502 142</b>	6,90		
30	12	6	20000	10				<b>0002-502 143</b>	9,80		
40	7	10	18000	10				<b>0002-503 141</b>	5,35		
40	11	10	18000	10		<b>0002-503 132</b>	8,70	<b>0002-503 142</b>	7,70		
40	16	10	18000	10				<b>0002-503 143</b>	10,10		
50	10	13	15000	10				<b>0002-504 141</b>	5,70	<b>0002-504 161</b>	5,20
50	17	13	15000	10		<b>0002-504 132</b>	9,10	<b>0002-504 142</b>	7,90	<b>0002-504 162</b>	7,20
50	23	13	15000	10				<b>0002-504 143</b>	10,55	<b>0002-504 163</b>	10,20
60	12	15	15000	10				<b>0002-505 141</b>	5,85	<b>0002-505 161</b>	5,50
60	18	15	15000	10		<b>0002-505 132</b>	10,25	<b>0002-505 142</b>	8,65	<b>0002-505 162</b>	7,90
60	23	15	15000	10				<b>0002-505 143</b>	12,65	<b>0002-505 163</b>	11,25
70	11	15	15000	10				<b>0002-506 141</b>	6,00	<b>0002-506 161</b>	5,90
70	18	15	15000	10		<b>0002-506 132</b>	11,85	<b>0002-506 142</b>	9,45	<b>0002-506 162</b>	8,15
70	23	15	15000	10				<b>0002-506 143</b>	12,85	<b>0002-506 163</b>	11,50
80	19	20	15000	10				<b>0002-507 142</b>	9,80	<b>0002-507 162</b>	9,50

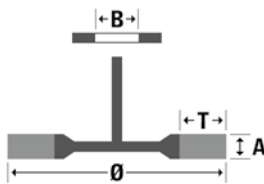
Continue next page.

# Brushes

## High-speed machines



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



**USAGE**

	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

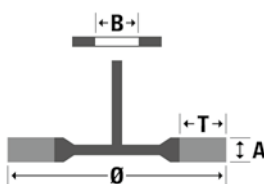
Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input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

mm				0,15	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	16,75	0002-501 342	15,35		
20	9	4	20000	0002-501 333	19,10	0002-501 343	18,05		
30	6	6	20000			0002-502 341	7,15		
30	9	6	20000	0002-502 332	9,75	0002-502 342	9,15		
30	12	6	20000	0002-502 333	14,95	0002-502 343	14,65		
40	7	10	18000	0002-503 331	9,15	0002-503 341	8,85		
40	11	10	18000	0002-503 332	14,30	0002-503 342	13,20		
40	16	10	18000	0002-503 333	18,95	0002-503 343	18,60		
50	10	13	15000			0002-504 341	7,70	0002-504 361	7,10
50	17	13	15000	0002-504 332	16,00	0002-504 342	14,95	0002-504 362	14,65
50	23	13	15000			0002-504 343	19,90	0002-504 363	19,10
60	12	15	15000			0002-505 341	8,70	0002-505 361	7,40
60	18	15	15000	0002-505 332	17,25	0002-505 342	16,55	0002-505 362	16,00
60	23	15	15000			0002-505 343	19,55	0002-505 363	19,90
70	11	15	15000			0002-506 341	8,85	0002-506 361	8,60
70	18	15	15000	0002-506 332	19,05	0002-506 342	17,00	0002-506 362	16,25
70	23	15	15000			0002-506 343	20,25	0002-506 363	21,20
80	10	20	12000					5162-507 361	11,65
80	19	20	12000			0002-507 342	17,05	0002-507 362	18,15

mm				0,20	RRP				
Ø	A	T	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	9	4	20000	0002-501 542	15,25				
30	9	6	20000	0002-502 542	8,20				
40	11	10	18000	0002-503 542	9,90				
50	17	13	15000	0002-504 542	11,85				
60	18	15	15000	0002-505 542	13,00				
70	18	15	15000	0002-506 542	14,60				
80	19	20	12000	0002-507 542	17,80				



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



**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
<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				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	11,60	9906-011 147	11,60	9906-011 148	11,60
50	10	11	5/8"	15000	9906-011 149	12,45	9906-011 150	12,45	9906-011 151	12,45
63	13	17	5/8"	15000	9906-011 153	13,45	9906-011 154	13,45	9906-011 155	13,45

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	12,85	9906-011 447	12,85	9906-011 448	12,85
50	10	11	6	15000	9906-011 449	13,75	9906-011 450	13,75	9906-011 451	13,75
63	13	17	6	15000	9906-011 453	15,05	9906-011 454	15,05	9906-011 455	15,05



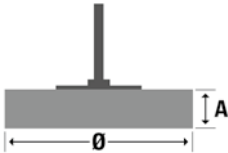
# Brushes

## 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	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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

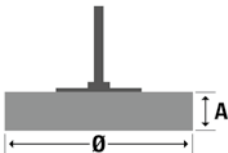
Aluminium oxide paper	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood

mm			min-1	pcs.	Grit 60	RRP	Grit 80	RRP	Grit 120	RRP
Ø	A	S			Order-No.	€	Order-No.	€	Order-No.	€
30	10	6	23000	10	0063-003 010	3,90	0083-003 010	3,90	0123-003 010	3,90
30	20	6	23000	10	0063-003 020	4,90	0083-003 020	4,90	0123-003 020	4,90
40	10	6	17000	10	0063-004 010	4,75	0083-004 010	4,75	0123-004 010	4,75
40	30	6	17000	10	<b>0063-004 030</b>	5,55	<b>0083-004 030</b>	5,55	<b>0123-004 030</b>	5,55
50	10	6	14000	10	0063-005 010	4,85	0083-005 010	4,85	0123-005 010	4,85
50	20	6	14000	10	0063-005 020	5,90	0083-005 020	5,90	0123-005 020	5,90
50	30	6	14000	10	<b>0063-005 030</b>	6,45	<b>0083-005 030</b>	6,45	<b>0123-005 030</b>	6,45
60	20	6	11000	10	0063-006 020	6,65	0083-006 020	6,65	0123-006 020	6,65
60	30	6	11000	10	<b>0063-006 030</b>	7,10	<b>0083-006 030</b>	7,10	<b>0123-006 030</b>	7,10
60	40	6	11000	10	0063-006 040	8,60	0083-006 040	8,60	0123-006 040	8,60

### 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
satin finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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			min-1	pcs.	Grit 80	RRP	Grit 150	RRP	Grit 240	RRP
Ø	A	S			Order-No.	€	Order-No.	€	Order-No.	€
40	20	6	8000	10	<b>0083-304 020</b>	8,55	<b>0153-304 020</b>	8,55	<b>0243-304 020</b>	8,55
40	30	6	8000	10	0083-304 030	10,00	0153-304 030	10,00	0243-304 030	10,00
50	20	6	7500	10	<b>0083-305 020</b>	9,80	0153-305 020	9,80	0243-305 020	9,80
50	30	6	7500	10	<b>0083-305 030</b>	10,40	<b>0153-305 030</b>	10,40	<b>0243-305 030</b>	10,40
50	40	6	7500	10	0083-305 040	12,40	0153-305 040	12,40	0243-305 040	12,40
60	30	6	7000	10	<b>0083-306 030</b>	12,90	<b>0153-306 030</b>	12,90	<b>0243-306 030</b>	12,90
60	40	6	7000	10	0083-306 040	13,15	0153-306 040	13,15	0243-306 040	13,15

# Brushes

## High-speed machines

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




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



**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
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		max		0,26	RRP	0,35	RRP		
Ø	T	L	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	29	44	20000	0002-630 328	27,30				
23	29	44	20000	0002-630 334	28,30	0002-630 335	28,15		
30	29	44	20000	0002-630 340	33,50	0002-630 341	32,90		

mm		max		0,26	RRP	0,35	RRP		
Ø	T	L	min-1	Order-No.	€	Order-No.	€	Order-No.	€
20	29	44	20000	0002-630 304	17,95	0002-630 305	17,05		
23	29	44	20000	0002-630 310	19,30	0002-630 311	17,80		
30	29	44	20000	0002-630 316	23,60	0002-630 317	21,15		

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



**PREMIUM**



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



**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
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

mm		max		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	9906-030 302	20,70	9906-030 304	17,40	9906-030 305
23	43	29	6	20000	9906-030 308	22,40	9906-030 310	18,45	9906-030 311
30	43	29	6	20000	9906-030 314	29,90	9906-030 316	22,75	9906-030 317

mm		max		Osborn 0,50	RRP					
Ø	L	T	S	min-1	Order-No.	€	Order-No.	€	Order-No.	€
23	43	29	6	20000	9906-030 312	16,35				
30	43	29	6	20000	9906-030 318	19,85				

### 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	≤ min <sup>-1</sup> 8000	≤ 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.



**i** RUFTUF End brushes are now also available with special clockwise and anti-clockwise twists. Available in steel wire and stainless steel wire, different wire diameters. Please contact us.

# 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 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						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>	28,65	<b>9906-030 328</b>	25,75	<b>9906-030 329</b>	24,05		
23	43	29	6	20000	12	<b>9906-030 332</b>	29,40	<b>9906-030 334</b>	26,75	<b>9906-030 335</b>	26,50		
30	43	29	6	20000	12	<b>9906-030 338</b>	40,50	<b>9906-030 340</b>	31,55	<b>9906-030 341</b>	30,95		

\* 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.



RUFTUF End brushes are now also available with special clockwise and anti-clockwise twists. Available in steel wire and stainless steel wire, different wire diameters. Please contact us.

# 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input checked="" 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 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	7,05	9803-630 171	6,95	9803-630 101	6,95

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	7,95	9803-630 371	7,85	9803-630 301	7,85



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 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	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	100	9000	10	0003-509 149	6,65	0003-509 169	5,95		

mm					0,20	RRP	0,30	RRP	RRP	
Ø	T	L	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
10	20	100	9000	10	0003-509 349	13,20	0003-509 369	12,10		

# 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	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 checked="" 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>	4,95	<b>0003-509 161</b>	4,40	<b>0003-509 191</b>	4,35
17	25	45	18000	12	<b>0002-509 142</b>	5,05	<b>0002-509 162</b>	4,60	<b>0002-509 192</b>	4,50
25	25	50	18000	12	<b>0002-509 143</b>	5,75	<b>0002-509 163</b>	5,50	<b>0002-509 193</b>	5,40
30	25	45	15000	12	<b>0002-509 144</b>	8,85	<b>0002-509 164</b>	8,30	<b>0002-509 194</b>	8,15

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.	€	Order-No.	€
10	20	40	20000	12	<b>0003-509 341</b>	7,30	<b>0003-509 361</b>	6,05		
17	25	45	18000	12	<b>0002-509 342</b>	8,05	<b>0002-509 362</b>	7,05		
25	25	50	18000	12	<b>0002-509 343</b>	10,00	<b>0002-509 363</b>	8,95		
30	25	45	15000	12	<b>0002-509 344</b>	14,35	<b>0002-509 364</b>	13,45		

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>	7,10	<b>0003-509 561</b>	5,90		
17	25	45	18000	12	<b>0002-509 542</b>	7,75	<b>0002-509 562</b>	6,95		
25	25	50	18000	12	<b>0002-509 543</b>	9,65	<b>0002-509 563</b>	7,10		
30	25	45	15000	12	<b>0002-509 544</b>	12,75	<b>0002-509 564</b>	10,45		

### 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"/>

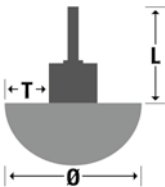
#### TRIM AND MATERIAL

##### Products available with:

	Steel	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>	9,20
70	45	15000	5	<b>0002-509 167</b>	11,50

Special design for dressing rounded welds or indentations.



# Brushes

## High-speed machines



**End brushes**  
crimped wire

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 →

Stainless steel →

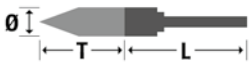
Steel	Cast-steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input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

mm			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	7,95		
9,5	29	55		12000	12	0024-509 102	12,85		
10	27	158		12000	6	1224-509 101	11,35		
12	29	60		12000	12	0024-509 111	8,05		
12	55	55		12000	6	0014-509 102	11,05		
20	25	47		12000	6	0024-509 103	13,90	0024-509 303	19,05
20	70	51		12000	6	0034-509 103	18,75		
28	25	47		12000	6	0004-509 104	22,10	0004-509 304	27,75



**End brushes**  
straight/crimped wire

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 →

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			Type	max	min-1	pcs.	0,30	RRP	0,40	RRP	0,50	RRP
Ø	T	L					Order-No.	€	Order-No.	€	Order-No.	€
9,5	32	57	122 P		12000	12			0124-509 101	9,30		
10	27	125	121 P/L		7000	6			2224-509 101	12,05		
10	31	55	123 P		12000	12			0224-509 101	10,45		
11	32	59	103 P		12000	6	0004-509 102 *	12,85				
12	30	61	124 P		12000	12			0124-509 111	9,80		
19	31	51	102 P		12000	6					0124-509 103	12,40
19	64	50	225		12000	6					0024-509 100	17,05

\* straight wire.

mm			Type	max	min-1	pcs.	0,30	RRP	0,50	RRP
Ø	T	L					Order-No.	€	Order-No.	€
9,5	32	57	122 P		12000	12	0074-509 301	12,90		
11	32	59	103 P		12000	6			0004-509 302 *	17,15
19	31	51	102 P		12000	6			0124-509 303	18,70
25	35	50	103 P		12000	6			0014-509 304	27,95

\* 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 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 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 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	21,75	9906-030 489	21,75	<b>9906-030 490</b>	21,75
15	45	25	6	5000	12	<b>9906-030 492</b>	23,10	<b>9906-030 493</b>	23,10	<b>9906-030 494</b>	23,10
22	45	25	6	5000	12	<b>9906-030 496</b>	26,75	9906-030 497	26,75	9906-030 498	26,75
28	45	25	6	5000	12	9906-030 500	32,15	9906-030 501	32,15	9906-030 502	32,15

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

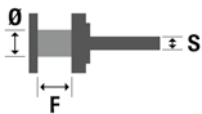


**Drive arbor**  
**Type II**



mm					pcs.	RRP					
Ø	inch	F	S			Order-No.	€	Order-No.	€	Order-No.	€
9,5	3/8 Zoll	11	6		1	<b>9907-075 128</b>	18,95				
12,7	1/2 Zoll	11	6		1	<b>9907-075 129</b>	18,95				
15,9	5/8 Zoll	11	6		1	<b>9907-075 130</b>	18,95				

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

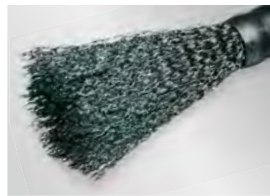
Brushes for stationary machines are suitable for bench deburrers, double grinders and special deburring machines.

#### 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

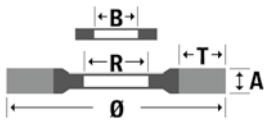
## Stationary machines

### 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	<b>0002-664 131</b>	36,50	<b>0002-664 151</b>	34,95
200	26	42	50,8	50,8		8500	1			<b>0002-664 152</b>	76,55
200	35	42	35	35		8500	1			5462-664 153	115,00
250	15	42	25,4 40		4-M	4500	2	<b>0002-676 131</b>	49,90	<b>0002-676 151</b>	49,30
300	18	55	25,4 40		4-M	3600	2	0002-686 131	68,50	<b>0002-686 151</b>	66,80
										0002-676 181	45,95
										0002-686 181	64,65

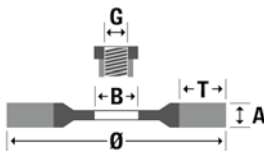
For other bore sizes, see table "Standard bore for single-row brushes" on page 64.

### 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>	43,20				
300	6	68	20	3600	6	<b>9802-026 561</b>	45,35	<b>9802-026 581</b>	43,25		
300	8	68	20	3600	6	<b>9802-026 562</b>	50,75	<b>9802-026 582</b>	47,70		
300	10	68	20	3600	6	<b>9802-026 563</b>	53,85	<b>9802-026 583</b>	48,70		

For other bore sizes, see table "Standard bore for single-row brushes" on page 64.

# Brushes

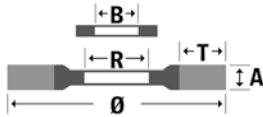
## Stationary machines

### 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 checked="" type="checkbox"/>	<input checked="" 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.	€
75	11	15	13	13			10000	8			0002-511 161	9,85
100	13	23	13	30			8000	8	0002-522 141	13,80	0002-522 161	12,00
100	13	23	13	20			8000	6			0002-532 161	12,55
125	15	35	13	20			6000	4	0002-544 141	21,05	0002-544 161	14,85
150	16	32	13	32			6000	4	0002-554 141	23,55	0002-554 161	17,20
178	18	45	13	32			6000	2			0002-566 161	22,10
200	19	38	19	40	50,8	4-M	4500	2	0002-566 141	28,05		
250	22	35	20	40	50,8	4-M	3600	2	0002-576 141	59,70	0002-576 161	43,60
300	26	58	20	40	20		3000	2			0002-587 161	53,45

For other bore sizes, see table "Standard bore for single-row brushes" on page 64.

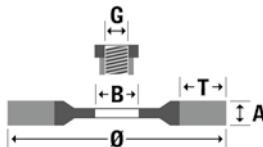
mm								0,20	RRP	0,30	RRP	
Ø	A	T	B min.	B max.	R	Adapt.	min-1	pcs.	Order-No.	€	Order-No.	€
75	11	15	13	13			10000	6	0002-511 341	14,75	0002-511 361	13,20
100	13	23	13	20			8000	4	0002-522 341	20,90	0002-522 361	19,10
125	15	35	13	20			6000	4			0002-532 361	27,00
150	16	32	13	32			6000	4	0002-544 341	34,20	0002-544 361	33,60
178	18	45	13	32			6000	2	0002-554 341	34,50	0002-554 361	36,80
200	19	38	19	40	50,8	4-M	4500	2			0002-566 361	39,90
250	22	35	20	40	50,8	4-M	3600	1	0002-576 341	102,00	0002-576 361	96,15
300	26	58	20	40	50,8	4-M	3000	1	0002-587 341	118,00	0002-587 361	110,00

For other bore sizes, see table "Standard bore for single-row brushes" on page 64.

### 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.	€
60	15	10	8	10000	10		1913-511 041	13,65				
80	15	20	8	10000	10		7603-511 041	13,95				
85	10	13,5	12	8000	10				9803-511 851	14,60		
100	13	21	10	8000	10				1903-515 851	15,70		
100	13	21	13	8000	10				9403-515 851	15,70		
100	15	20		8000	10						0003-515 827	15,70

# Brushes Stationary machines

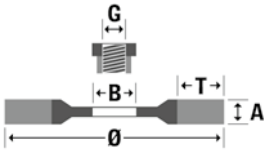
### Wheel brushes

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



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 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 0,20	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	38,60				
125	18	28	50,8	1-A	6000	1	9906-022 051	41,10			9906-022 055	30,35
150	14	29	31,75	3-A	6000	2	9906-021 009	34,95	9906-021 013	28,65	9906-021 163	24,80
150	20	26	50,8	1-A	6000	1					9906-022 065	36,20

For other bore sizes, see Adapters on pages 72 & 73.

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	33,35
150	14	29	31,75	3-A	6000	2			9906-021 059	54,25
150	20	26	50,8	1-A	6000	2	9906-022 066	33,40		

For other bore sizes, see Adapters on pages 72 & 73.

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	9906-021 183	108,00	9906-021 184	56,00
200	22	37	50,8	1-A	4500	1	9906-022 081	87,70	9906-022 082	74,05
250	26	60	50,8	4-M	3600	1			9906-013 008	107,00
300	28	60	50,8	4-M	3000	1			9906-013 020	141,00

For other bore sizes, see Adapters on pages 72 & 73.

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	9906-022 085	66,25	9906-022 086	60,90		
250	26	60	50,8	4-M	3600	1	9906-013 009	95,00	9906-013 010	92,40	9906-013 011	85,90
300	28	60	50,8	4-M	3000	1	9906-013 021	130,00	9906-013 022	122,00	9906-013 023	116,00
380	32	72	50,8	4-M	2400	1	9906-013 057	184,00				

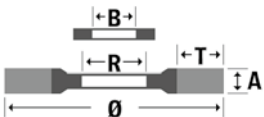
For other bore sizes, see Adapters on pages 72 & 73.

### Wheel brushes


crimped wire




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



### 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 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	0,50	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			9902-511 162	15,85		
100	20	23		20	30	8000	5	9902-522 142	19,30	9902-522 162	15,85		
100	28	23		20	30	8000	5			9902-522 163	22,50		
125	22	30		20	30	6000	5	9902-532 142	22,00	9902-532 162	18,15		
125	30	30		20	30	6000	5			9902-532 163	23,60		
150	21	25		31,75	50,8	6000	3	9902-544 441	30,00	9902-544 461	23,95	9902-544 491	23,25
150	30	29		31,75	50,8	6000	3	9902-544 142	30,00	9902-544 162	23,60		
150	37	29		31,75	50,8	6000	3			9902-544 163	31,50	9902-544 193	31,30
178	23	38		31,75	50,8	6000	1	9902-554 441	36,45	9902-554 461	31,00		
178	32	38		31,75	50,8	6000	1	9902-554 142	36,45	9902-554 162	30,85	9902-554 192	30,50
178	38	38		31,75	50,8	6000	1			9902-554 163	42,85		
200	20	38		31,75	80	4500	1	9902-566 441	46,35	9902-566 461	39,75	9902-566 491	39,25
200	30	38		31,75	80	4500	1	9902-566 142	46,35	9902-566 162	39,45	9902-566 192	39,25
200	38	38		31,75	80	4500	1	9902-566 143	65,55	9902-566 163	58,55	9902-566 193	58,10
250	28	47	20	50,8	100	3600	1	9902-576 142	72,10	9902-576 162	67,35	9902-576 192	66,95
250	38	47	20	50,8	100	3600	1	9902-576 143	75,15	9902-576 163	73,25	9902-576 193	72,45
250	55	47	20	50,8	100	3600	1			9902-576 464	99,05		
300	32	50	25,4	50,8	120	3000	1	9902-587 142	85,80	9902-587 162	72,10	9902-587 192	71,65
302	46	51	50,8	101,6	151		1			0002-587 162	82,60		
300	44	50	25,4	50,8	120	3000	1	9902-587 143	99,00	9902-587 163	84,95	9902-587 193	84,65

# Brushes

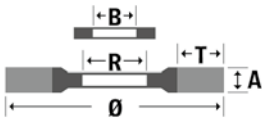
## Stationary machines

### 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	<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	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

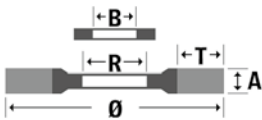
mm							0,20	RRP	0,30	RRP	
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€
75	19	16		20	20	10000	4			9902-511 362	23,40
100	20	23		20	30	8000	4	<b>9902-522 342</b>	43,25	<b>9902-522 362</b>	38,30
100	28	23		20	30	8000	4			9902-522 363	53,50
125	22	30		20	30	6000	2	9902-532 342	53,50	<b>9902-532 362</b>	49,35
125	30	30		20	30	6000	2	9902-532 343	71,75	9902-532 363	67,75
150	21	25		31,75	50,8	6000	2	<b>9902-544 341</b>	68,45	<b>9902-544 361</b>	65,70
150	30	29		31,75	50,8	6000	2	<b>9902-544 342</b>	70,70	<b>9902-544 362</b>	66,70
178	23	38		31,75	50,8	6000	1	9902-554 341	87,80	<b>9902-554 361</b>	81,95
178	32	38		31,75	50,8	6000	1			<b>9902-554 362</b>	83,90
200	20	38		31,75	80	4500	1	<b>9902-566 341</b>	106,00	<b>9902-566 361</b>	97,90
200	30	38		31,75	80	4500	1	<b>9902-566 342</b>	109,00	<b>9902-566 362</b>	101,00
200	38	38		31,75	80	4500	1			9902-566 363	140,00
250	28	47	20	50,8	100	3600	1	<b>9902-576 342</b>	136,00	<b>9902-576 362</b>	127,00
250	38	47	20	50,8	100	3600	1	9902-576 343	166,00	9902-576 363	159,00
300	32	50	25,4	50,8	120	3000	1	9902-587 342	144,00	9902-587 362	147,00
300	44	50	25,4	50,8	120	3000	1	9902-587 343	211,00	9902-587 363	204,00

### 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 wire crimped	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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.	€
150	24	43		20	30	6000	3	<b>9902-543 142</b>	24,95	<b>9902-543 162</b>	22,00
150	32	43		20	30	6000	3			9902-543 163	29,05
178	32	43		31,75	50,8	6000	1	<b>9902-553 162</b>		<b>9902-553 163</b>	26,30
178	40	43		31,75	50,8	6000	1			9902-553 163	36,25
200	33	55		31,75	50,8	4500	1	<b>9902-565 142</b>	36,80	<b>9902-565 162</b>	29,20
200	42	55		31,75	50,8	4500	1	9902-565 143	53,65	<b>9902-565 163</b>	42,30
250	32	63	20	50,8	80	3600	1	9902-575 142	55,75	9902-575 162	46,50
250	42	63	20	50,8	80	3600	1			<b>9902-575 163</b>	64,50
300	33	70	25,4	50,8	100	3000	1	9902-586 142	78,95	<b>9902-586 162</b>	65,80
300	45	70	25,4	50,8	100	3000	1			<b>9902-586 163</b>	84,20

mm							0,20	RRP	0,30	RRP	
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€
150	24	43		20	30	6000	2			9902-543 362	51,90
178	32	43		31,75	50,8	6000	1	9902-553 342	76,70	9902-553 362	66,00
200	33	55		31,75	50,8	4500	1	9902-565 342	112,00	<b>9902-565 362</b>	104,00
250	32	63	20	50,8	80	3600	1	<b>9902-575 342</b>	130,00		
300	33	70	25,4	50,8	100	3000	1	9902-586 342	141,00	9902-586 362	137,00
300	45	70	25,4	50,8	100	3000	1	9902-586 343	193,00	9902-586 363	194,00

mm							0,20	RRP	0,30	RRP	
Ø	A	T	B min.	B max.	R	min-1	pcs.	Order-No.	€	Order-No.	€
150	24	43		20	30	6000	2	<b>9902-543 542</b>	59,20	9902-543 562	52,40
150	32	43		20	30	6000	2	9902-543 543	83,90	9902-543 563	78,35
178	32	43		31,75	50,8	6000	1	9902-553 542	67,35	9902-553 562	61,50
200	33	55		31,75	50,8	4500	1	<b>9902-565 542</b>	81,75	<b>9902-565 562</b>	73,20



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

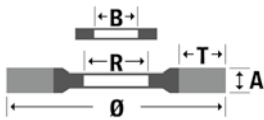
## Stationary machines

### Wheel brushes

#### crimped wire



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 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 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 checked="" 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							0,20	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>	180,00	<b>0042-576 165</b>	160,00		
250	95	45	82	100	3600	1	3132-703 147	242,00	<b>3162-703 167</b>	198,00		
300	55	50	100	100	2800	1					<b>0002-586 175</b>	219,00
300	95	70	82	100	2800	1					3132-703 178	293,00

For other bore sizes, see Axle discs on page 70 and table "Standard bore for multi-row brushes" on page 64.

mm							0,50	RRP
Ø	A	T	B	R	min-1	pcs.	Order-No.	€
250	55	45	100	100	3600	1	<b>0002-576 195</b>	148,00
250	95	45	82	100	3600	1	3232-703 197	194,00

For other bore sizes, see Axle discs on page 70 and table "Standard bore for multi-row brushes" on page 64.

mm							0,20	RRP	0,30	RRP
Ø	A	T	B	R	min-1	pcs.	Order-No.	€	Order-No.	€
250	50	45	82	100	3600	1	0022-576 345	333,00		
250	55	45	100	100	3600	1	<b>0002-576 345</b>	336,00	<b>0042-576 365</b>	307,00
250	95	45	82	100	2800	1	3132-703 347	583,00		

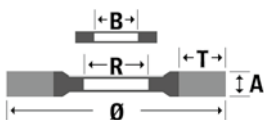
For other bore sizes, see Axle discs on page 70 and table "Standard bore for multi-row brushes" on page 64.

### 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 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 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
Abrasive bristle	<input 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	R	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
250	55	45	100	100	3600	1	0002-576 906	250,00	<b>0002-576 916</b>	250,00	0002-576 926	250,00

For other bore sizes, see Axle discs on page 70 and table "Standard bore for multi-row brushes" on page 64.

# Brushes

## Stationary machines



**Axle plates**

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

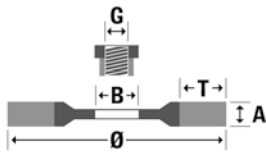
One-way axle discs for tabletop deburrers.



**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 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 checked="" type="checkbox"/>

**TRIM AND MATERIAL**

Products available with:

Abrasive bristle →

<input type="checkbox"/>	Steel
<input 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

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			9906-015 001	26,55	9906-015 002	26,55	9906-015 003	26,55
100	13	20	5/8"	F	12000	6			9906-015 025	30,05	9906-015 026	30,05	9906-015 027	30,05
125	16	32	5/8"	F	12000	6			9906-015 035	36,15	9906-015 036	36,15	9906-015 037	36,15
150	17	32	7/8"	F	8000	6			9906-015 079	43,80	9906-015 080	43,80	9906-015 081	43,80
178	20	47	7/8"	F	8000	2			9906-015 040	61,10	9906-015 041	61,10	9906-015 042	61,10
200	18	35	2"	4-M	6000	2			9906-015 050	86,85	9906-015 051	86,85	9906-015 052	86,85
250	18	35	2"	4-M	3000	2			9906-015 056	110,00	9906-015 057	110,00	9906-015 058	110,00
250	18	60	2"	4-M	3600	2			9946-015 056	105,00	9946-015 057	105,00	9946-015 058	105,00
300	18	35	2"	4-M	2400	2			9906-015 062	157,00	9906-015 063	157,00	9906-015 064	157,00
300	18	60	2"	4-M	3000	2					9966-015 063	157,00	9966-015 064	157,00
350	19	55	2"	4-M	2400	2					9906-015 069	187,00	9906-015 070	187,00

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			9906-015 004	26,55				
100	13	20	5/8"	F	12000	6			9906-015 028	30,05	9916-015 026	28,80		
125	16	32	5/8"	F	12000	6			9906-015 038	36,15				
150	17	32	7/8"	F	8000	6			9906-015 082	43,80				
178	20	47	7/8"	F	8000	2			9906-015 043	61,10	9916-015 041	58,45		
200	18	35	2"	4-M	6000	2			9906-015 053	86,85	9916-015 051	83,05		
250	18	35	2"	4-M	3000	2			9906-015 059	110,00	9916-015 057	104,00		
250	18	60	2"	4-M	3600	2			9946-015 059	105,00				
300	18	35	2"	4-M	2400	2			9906-015 065	157,00				
300	18	60	2"	4-M	3000	2			9966-015 065	157,00				
350	19	55	2"	4-M	2400	2			9906-015 071	187,00	9916-015 069	179,00		



# Brushes

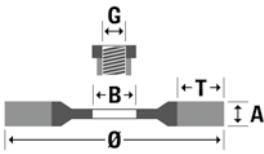
## Stationary machines

### Wheel brushes

#### abrasive filament



Abrasive bristle for dry applications.



#### USAGE

	40/46	60	80	120	180	320	Fibre
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:

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								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	<b>9902-515 001</b>	21,40	<b>9902-515 002</b>	21,40	<b>9902-515 003</b>	21,40
100	18	18	13	20			12000	6	<b>9902-515 025</b>	25,65	<b>9902-515 026</b>	25,65	<b>9902-515 027</b>	25,65
150	18	32	13	32	50,8	F	8000	6	<b>9902-515 079</b>	37,95	<b>9902-515 080</b>	37,95	<b>9902-515 081</b>	37,95
150	18	32	13	32		F	8000	6	<b>9902-515 040</b>	50,15	<b>9902-515 041</b>	50,15	9902-515 042	50,15
200	18	35	19		50,8	4-M	6000	2	<b>9902-515 050</b>	70,75	<b>9902-515 051</b>	70,75	<b>9902-515 052</b>	70,75
250	20	35	20		50,8	4-M	3600	2			<b>9902-515 057</b>	88,30		
250	18	60	20		50,8	4-M	3000	2	<b>9962-515 056</b>	88,70	<b>9962-515 057</b>	88,70	<b>9962-515 058</b>	88,70
250	18	60	20		50,8	4-M	3600	2	9902-515 056	88,30			<b>9902-515 058</b>	88,30
300	20	35	20		50,8	4-M	2400	2	<b>9902-515 062</b>	129,00	<b>9902-515 063</b>	129,00	<b>9902-515 064</b>	129,00
300	20	60	20		50,8	4-M	3000	2	9962-515 062	129,00	<b>9962-515 063</b>	129,00	9962-515 064	129,00
350	20	57	32		50,8	4-M	2400	2			9902-515 069	152,00		

mm								Novofil 320	RRP		RRP		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	<b>9902-515 004</b>	21,40				
100	18	18	13	20			12000	6	<b>9902-515 028</b>	25,65				
150	18	32	13	32	50,8		8000	6	<b>9902-515 082</b>	37,95				
178	18	45	13	32			8000	4	<b>9902-515 043</b>	50,15				
200	18	35	19		50,8	4-M	6000	2	<b>9902-515 053</b>	70,75				
250	18	60	20		50,8	4-M	3000	2	<b>9962-515 059</b>	88,70				
300	20	35	20		50,8	4-M	2400	2	<b>9902-515 065</b>	129,00				
300	20	60	20		50,8	4-M	3000	2	<b>9962-515 065</b>	129,00				

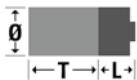
For other bore sizes, see table "Standard bore for single-row brushes" on page 64.

### 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 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"/>
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"/>
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"/>
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"/>
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"/>
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"/>

#### TRIM AND MATERIAL

Products available with:

Steel wire straight →

Stainless steel →

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"/>

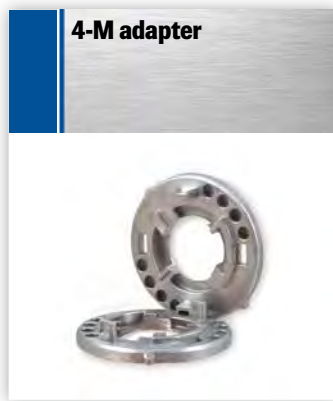
mm					0,20	RRP	0,35	RRP	0,50	RRP
Ø	T	L		pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	95	25		16	0002-509 448	9,75	<b>0002-509 478</b>	9,15	0002-509 498	8,55

mm					0,20	RRP	Grit 120	RRP	Grit 120 Mix 0,20 stainless	RRP
Ø	T	L		pcs.	Order-No.	€	Order-No.	€	Order-No.	€
25	95	25		16	0002-509 348	17,00	<b>0002-509 928</b>	10,80	<b>5702-509 938</b>	12,95

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

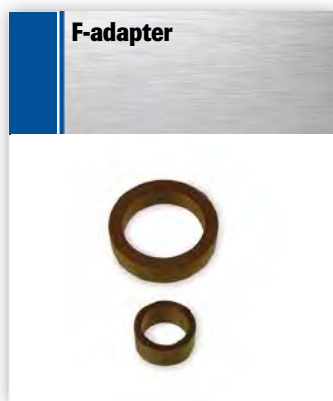
# Brushes

## Stationary machines

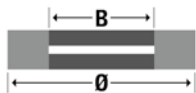


4-M adapter for thin wheel brushes with bore 2" (50.8 mm) tapered grooves; reusable.

mm		pcs.	Order-No.	RRP			
B	inch			€	Order-No.	€	Order-No.
12,7	1/2"	1	0003-075 064	8,85			
15,9	5/8"	1	0003-075 065	8,85			
19	3/4"	1	0003-075 066	8,85			
22,2	7/8"	1	0003-075 067	6,46			
25,4	1"	1	0003-075 068	8,85			
28	1 1/8"	1	0003-075 069	8,85			
28	1 1/4"	1	0003-075 070	8,85			
38	1 1/2"	1	0003-075 071	8,85			
44,45	1 3/4"	1	0003-075 072	8,85			
50.8	2"	1	0003-075 073				



For reduction of arbor holes.



inch		pcs.	Order-No.	RRP			
Inner Ø	Outer Ø			€	Order-No.	€	Order-No.
1/2"	5/8"	1	0003-000 223	0,95			
3/8"	7/8"	1	0003-000 242	0,95			
7/8"	1 1/2"	1	0003-000 243	0,95			
7/8"	5/8"	1	0003-000 244	1,60			



Interchangeable metal adapters for wheel brushes.


inch	pcs.	1-A		3-A	
B		Order-No.	RRP €	Order-No.	RRP €
1/4"	1			0103-075 046	1,55
3/8"	1	0103-075 020	2,00	0103-075 047	1,55
1/2"	1	0103-075 021	2,05	0103-075 048	1,55
5/8"	1	0103-075 022	2,05	0103-075 049	1,55
3/4"	1	0103-075 023	2,05	0103-075 050	1,55
7/8"	1	0103-075 024	2,05	0103-075 051	1,55
1"	1	0103-075 025	2,05	0103-075 052	1,55
1/8"	1	0103-075 026	2,05		
1 1/4"	1	0103-075 027	2,60		
1 1/2"	1	0103-075 028	2,05		

# Brushes


## Stationary machines





Interchangeable metal adapters for wheel brushes.

mm		1-A	RRP	3-A	RRP		
<b>B</b>	<b>pcs.</b>	Order-No.	€	Order-No.	€	Order-No.	€
10	1	0103-075 210	2,05	0103-075 310	1,50		
12	1	0103-075 212	2,05	0103-075 312	1,45		
13	1	0103-075 213	2,05	0103-075 313	1,55		
15	1			0103-075 315	1,45		
16	1	0103-075 216	2,05	0103-075 316	1,55		
17	1	0103-075 217	2,05				
20	1	0103-075 220	2,60	0103-075 320	1,55		
25	1	0103-075 225	3,45	0103-075 325	1,55		
30	1	0103-075 230	2,05				
32	1	0103-075 232	2,05				
35	1	0103-075 235	2,05				
40	1	0103-075 240	2,05				



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**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

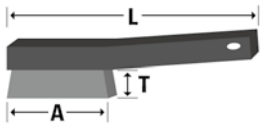
We also have a selection of useful accessories.



# Brushes

## Hand brushes

### Hand scratch brushes plastic handle



#### 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:

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

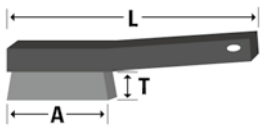
mm					0,30 Crimped	RRP	0,30 Crimped	RRP	0,30 Crimped	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
140	25	265	1	24	<b>0008-462 291</b>	2,45	<b>0008-462 391</b>	5,95	<b>0008-462 591</b>	5,95

mm					0,30 Brass-coated	RRP		RRP		RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
140	25	265	1	24	<b>0008-462 091</b>	2,45				

### Hand scratch brushes plastic handle



Ergonomically shaped 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:

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

mm					0,35 Straight	RRP	0,30 Straight	RRP	0,20 Crimped	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	23	280	2	10	<b>0008-462 132</b>	3,55	<b>0008-451 332</b>	6,40	<b>0008-447 572</b>	6,75
100	23	280	3	10	<b>0008-462 133</b>	4,70	<b>0008-451 333</b>	7,70	<b>0008-447 573</b>	8,10
100	23	280	4	10	<b>0008-462 134</b>	5,40	<b>0008-451 334</b>	8,20	<b>0008-447 574</b>	8,65

# Brushes

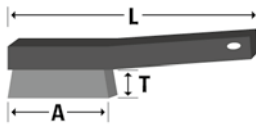
## Hand brushes

### 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 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"/>														
Brass wire	<input type="checkbox"/>														

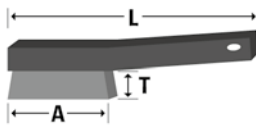
mm					0,35 Straight	RRP	0,30 Straight	RRP	0,20 Crimped	RRP
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
110	23	270	2	5	0001-432 602	5,05	0001-432 612	9,95	0001-432 622	9,50
110	23	270	3	5	0001-432 603	6,00	0001-432 613	11,35	0001-432 623	10,65
110	23	270	4	5	0001-432 604	6,95	0001-432 614	13,35	0001-432 624	12,15
110	23	270	5	5	0001-432 605	7,80	0001-432 615	14,25	0001-432 625	12,85

### 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 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"/>
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	6,35	3301-462 162	6,35	3301-462 562	9,05





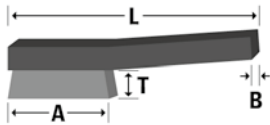


# Brushes

## 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"/>
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:

Stainless steel

Brass wire

Steel	<input type="checkbox"/>
Cast steel	<input 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"/>

mm



**0,20 Crimped**

RRP

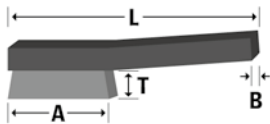
**0,20 Crimped**

RRP

A	T	L	Rows	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
45	18	200	3	18	1	<b>2103-133 373</b>	2,35				
45	18	189	3	18	24			<b>0003-133 573</b>	1,40		

### 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"/>
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:

Stainless steel

Brass wire

Steel	<input type="checkbox"/>
Cast steel	<input 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"/>

mm



**0,20 Crimped**

RRP

**0,20 Crimped**

RRP

A	T	L	Rows	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
33	15	180	3	18	24	<b>0023-133 373</b>	5,25				
33	15	180	3	48	48			<b>0008-432 573</b>	1,70		



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

## Hand brushes



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>	9,80				



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	6,00				
10	25	160	12	0003-075 251	6,10				
13	25	160	12			<b>0003-075 252</b>	6,15		
16	25	160	12			<b>0003-075 253</b>	6,15		
19	28	160	12			<b>0003-075 254</b>	6,25		
23	25	160	12			<b>0003-075 255</b>	6,25		
26	25	160	12			0003-075 256	6,45		
29	32	160	12					<b>0003-075 257</b>	6,55
33	35	160	12					0003-075 258	6,70
43	38	160	6					0003-075 259	6,80
56	45	160	6					0003-075 260	7,00

# Brushes

## Hand brushes

### Hole cleaning brushes

crimped wire



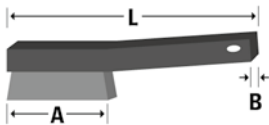
To clean the inside of steel, wood or plastic products. To remove chippings and loose particles.



mm				0,15	RRP	0,20	RRP	0,30	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
15	100	280	10	<b>0002-892 215</b>	9,50				
20	100	280	10			<b>0002-892 220</b>	9,80		
25	100	280	10					<b>0002-892 225</b>	10,00
30	100	280	10					<b>0002-892 230</b>	10,40

### File brushes

wooden handle



#### USAGE

	wire crimped/smooth	brass	metal wire	scratch strip	Nylon/PVC	natural bristle	phosphorbronze
descaling/paint stripping	<input checked="" 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 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 checked="" 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 checked="" 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 checked="" 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 checked="" 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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Steel wire →

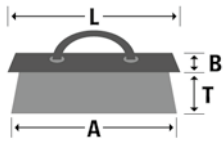
mm				Straight	RRP				
A	L	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	235	25	12	<b>0003-140 101</b>	2,60				
115	235	40	12	<b>0003-140 102</b>	3,50				
115	265	50	12	<b>0003-140 104</b>	4,85				
127	260	12	12	<b>3303-140 101</b>	4,90				

# Brushes

## Hand brushes



Wood body with plastic 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"/>	<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 checked="" 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"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire

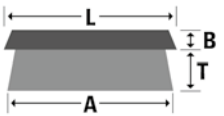
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood	

mm						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	0281-307 095 *	7,60	7601-306 095	6,90		

\* with board



Violin shape.



**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"/>	<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 checked="" 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"/>

**TRIM AND MATERIAL**

Products available with:

Steel wire

Stainless steel

<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						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	0001-179 397	10,25	0001-179 097	3,15	0001-179 297	3,15	

mm						Flat wire 1,2x0,25	RRP			
A	T	L	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
150	35	190		10	0023-179 197	6,15				

# Brushes

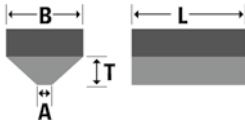
## Hand brushes

### 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.

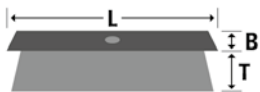


mm						0,35	RRP	0,35	RRP		
A	T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
4	38	100	35	3	25	<b>0001-261 173</b> *	4,65	<b>0011-261 173</b>	4,50		

\* with bore 24 mm.

### Brooms

wooden body

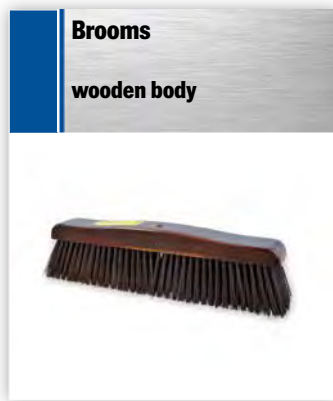


mm						0,75 x 0,25	RRP	1,20 x 0,25	RRP	0,50	RRP
T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
75	300	60	5	10						<b>0001-102 095</b>	9,80
75	300	60	6	10	<b>0001-102 006</b>	10,35	<b>0001-102 016</b> *	13,00			

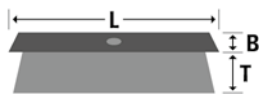
\* Type with flat wire.

# Brushes

## Hand brushes

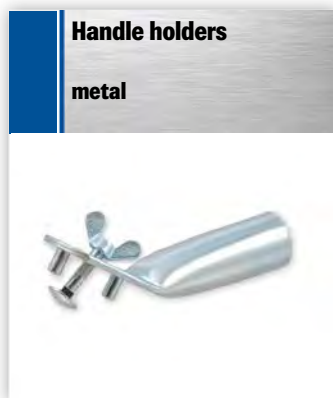


Type with Korfil-D to clean very dirty workshop floors.



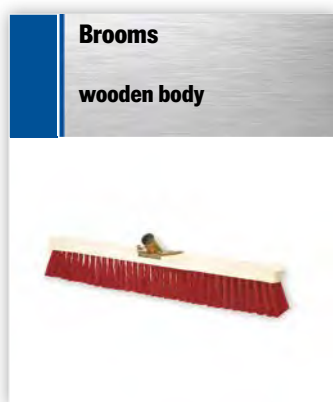
mm						Korfil-D	RRP				
T	L	B	Rows	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
75	400	60	6	1		0001-104 924 *	26,30				
75	700	70	7	1		9711-104 925	48,90				

\* wooden body coated



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

	RRP					
pcs.	Order-No.	€	Order-No.	€	Order-No.	€
1	0003-000 001	13,60				



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				0004-102 925	8,55		
75	400		55	5				0003-101 940	8,95		
80	290	20	55	20		0003-102 950	3,25				
80	600	6	55	6		0003-102 990	13,10	0003-102 960	16,40		
80	800	6	55	6		0003-102 980	17,30				

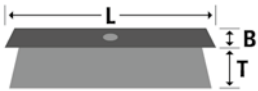
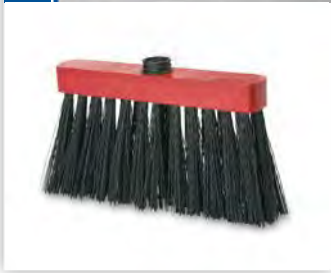


# Brushes

## Hand brushes

### Brooms

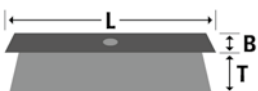
wooden body



mm					📦	Piassava	RRP				
T	L	Rows	B	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
260	140	3	45	10	0003-102 920	5,35					

### Scrub brushes

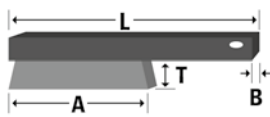
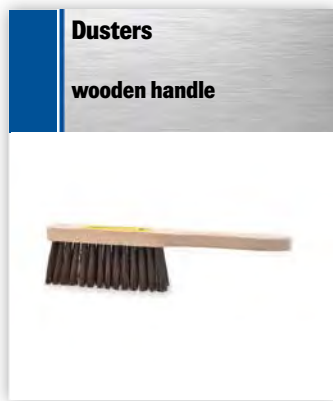
wooden body



mm					📦	Straight	RRP	Brass Crimped	RRP		
T	L	B	Rows	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
30	210	60	6	10	<b>0001-122 096</b>	7,40	0001-122 596	13,35			
40	210	60	7	10	<b>0001-120 097</b>	7,95					

# Brushes

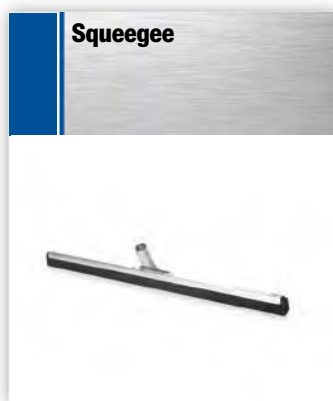
## Hand brushes



mm							Steel wire Straight	RRP	Korfil-D	RRP	Cocos	RRP
A	T	L	B	Rows	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
150	60	310	35	4	10		0001-110 114	6,80	0181-110 924	8,65	0003-102 924	3,45



		Steel	RRP				
pcs.		Order-No.	€	Order-No.	€	Order-No.	€
10		0003-104 030	6,90				



mm			Rubber Black	RRP				
L	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
600	12		0003-106 760	6,15				

# Brushes

## Hand brushes

**Broomhandle**  
wood



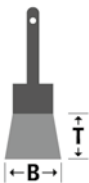
mm			Wood	RRP	Wood Pine	RRP		
Ø	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
28	1400	5	<b>0003-999 027</b>	5,05				
24	1300	5	<b>0003-000 024</b>	4,25	<b>0003-999 026 *</b>	4,25		

\* with screw

**Paint brushes**  
plastic handle



mm				Light Borste	RRP				
T	B	Thickness	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
40	20	9	12	<b>0003-086 102</b>	1,20				
40	30	9	12	<b>0003-086 103</b>	1,40				
40	40	9	12	<b>0003-086 104</b>	1,55				
43	50	9	12	<b>0003-086 105</b>	1,90				
43	60	10	12	<b>0003-086 106</b>	2,15				

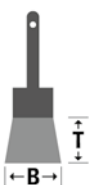


**Paint brushes**  
plastic handle



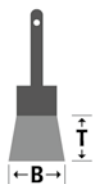
mm					Light Bristle	RRP				
T	B	Thickness	inch	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
42	25		1"	12	<b>1003-086 425</b>	2,40				
42	38		1 1/2"	12	<b>1003-086 438</b>	2,55				
42	50,8		2"	12	<b>1003-086 450</b>	2,70				

Heating element brush.



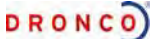
# Brushes



## Hand brushes



mm					Light Bristle	RRP				
T	B			pcs.	Order-No.	€	Order-No.	€	Order-No.	€
40	13			12	1003-086 206	1,20				
40	16			12	1003-086 208	1,30				
45	20			12	1003-086 210	1,55				
45	23			12	1003-086 212	1,80				
50	26			12	1003-086 214	1,95				
50	30			12	1003-086 216	2,40				



 **DRONCO**  
The Dronco catalogue as PDF-Download:  
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# 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/osbornesolutions](http://www.youtube.com/osbornesolutions)



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

There are three possible finish grades when satinising a surface.

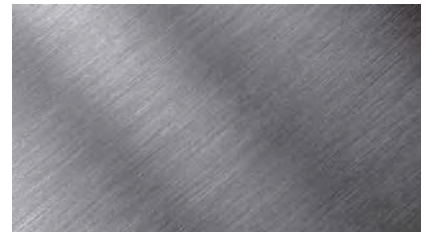
### Coarse brush stroke



### 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.

USAGE		TRIM AND MATERIAL																																																																								
	<table border="0"> <tr> <td></td> <td>coarse</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Satinising</td> <td>medium</td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Deoxydising</td> <td>fine</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Light grinding</td> <td>superfine</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Light deburring</td> <td></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Blending</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Fine grinding</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> </table>		coarse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Satinising	medium	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Deoxydising	fine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Light grinding	superfine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Light deburring		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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 checked="" type="checkbox"/>	<b>Product available with:</b> <table border="0"> <tr> <td></td> <td>Steel</td> <td>Stainless steel</td> <td>Aluminium</td> <td>Brass</td> <td>Copper</td> </tr> <tr> <td>coarse</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>medium</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>fine</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>superfine</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		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"/>	superfine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	coarse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																					
Satinising	medium	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																																																																					
Deoxydising	fine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																					
Light grinding	superfine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																					
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coarse	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																					
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superfine	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																																																																					



# PERFECT POLISHING

Watch the video on YouTube:  
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### 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

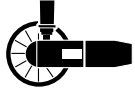
# Polishing/Satinising

## 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 type="checkbox"/>
Aluminium	<input type="checkbox"/>
Brass	<input type="checkbox"/>
Copper	<input type="checkbox"/>

		4 white		RRP	5 brown		RRP	6 blue		RRP
g	pcs.	Order no.	€	Order no.	€	Order no.	€			
110	15	2103005333	2,40	2103007012	2,80	2103000461	2,55			
700	8	8103005333*	9,50	8103007012	12,30	8103000462	9,65			

\*white 600g



**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**

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



# Polishing/Satinising

## Introduction & technical information

# PERFECT SATINISING

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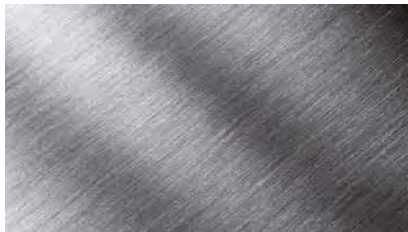
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There are three possible finish grades when satinising a surface.

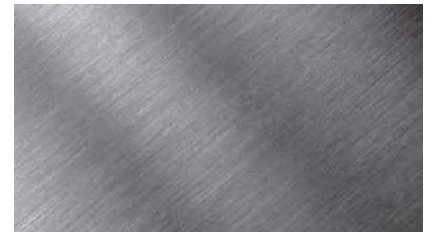
### Coarse brush stroke



### 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.

USAGE		TRIM AND MATERIAL				
						

# 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 |

### 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 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".





#### USAGE

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

		4 white		RRP	5 brown		RRP	6 blue		RRP
g	pcs.	Order no.	€	Order no.	€	Order no.	€			
110	15	2103005333	2,40	2103007012	2,80	2103000461	2,55			
700	8	8103005333*	9,50	8103007012	12,30	8103000462	9,65			

\*white 600g



#### 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

**USAGE**



	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>	7,15				
100	30	10	4000	10			<b>8203100936</b>	7,70	<b>8203100947</b>	8,10

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



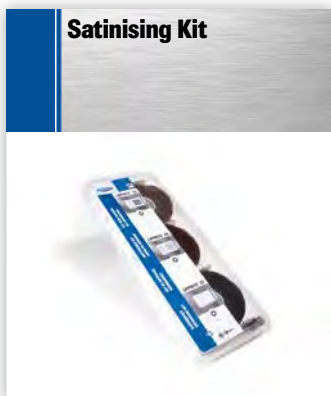
**Tapered Shank**

**USAGE**




mm	mm	pcs.	Shaft	RRP
A	S		Order no.	€
10-35	6	4	<b>8103800224</b>	7,80

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



**Satinising Kit**

**USAGE**



	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>	29,30

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 USING STATIONARY MACHINES**



# Polishing/Satinising

## Introduction & technical information

# PERFECT SATINISING

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



Satinising is a one-stage system for creating flat surfaces. The main considerations when selecting the satinising 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.

USE		TRIM AND MATERIAL				
						

# 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	Diagram	Tool	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.								
	1. Cutting	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	
2. Polishing	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	
3. Colouring	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.								
	1. Polishing	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
2. Colouring	For high-gloss surfaces.			8 6	8 6	8 6	8 6	8 6	
1 STEP	<b>Polishing as a 1-step process</b>								
	1. Polishing and Finishing	For low-gloss effects (not high gloss)			9 4	9 4	9 5	9 5	9 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".



#### USAGE

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

		4 white		RRP	5 brown		RRP	6 blue		RRP
g	pcs.	Order no.	€	Order no.	€	Order no.	€			
110	15	2103005333	2,40	2103007012	2,80	2103000461	2,55			
700	8	8103005333*	9,50	8103007012	12,30	8103000462	9,65			

\*white 600g



#### 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 Buff Cloth/fleece



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



### USAGE

1. Cutting         
 2. Polishing         
 3. Colouring

### TRIM AND MATERIAL

Product available with:

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

mm				1 Sisal cloth Order no.	RRP €	2 NTF914 Order no.	RRP €	3 NTF925 Order no.	RRP €	
150	A	B	rpm	pcs.	Order no.	€	Order no.	€	Order no.	€
150	17	14	3000	10	<b>8203150944</b>	16,35				
150	15	14	3000	5*			<b>8203150914</b>	21,00		
150	10	14	3000	5*					<b>8203150925</b>	16,65
200	17	14	3000	10	<b>8211201944</b>	22,65				
200	15	14	3000	5*			<b>8203200914</b>	23,25		
200	10	14	3000	5*					<b>8203200925</b>	25,15

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

## Satinising Buff Non woven abrasive



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



### USAGE

- 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					coarse	RRP	medium	RRP	fine	RRP
150	A	B	rpm	pcs.	Order no.	€	Order no.	€	Order no.	€
150	25	14	3000	10	<b>8203150934</b>	11,90			<b>8203150947</b>	15,65
150	30	14	3000	10			<b>8203150936</b>	14,35		
200	25	14	3000	10	<b>8203200934</b>	16,65				
200	30	14	3000	10			<b>8203200936</b>	21,55	<b>8203200947</b>	23,25

## Liprite Wheel



The abrasive flaps are bonded radially to a phenolic tube. The three dimensional open web ensures a „self-cleaning action“ for easy removal of surface contamination or to obtain a decorative finish.

Ideal for cleaning profiled or irregular parts, suitable to obtain an aesthetic finish.

mm					K80 A2T	RRP	K100 A4T	RRP	K180 A6T	RRP	K280 A	RRP
150	L	B	min <sup>-1</sup>	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	Order-No.	€
150	25	1"	3200	1	L81545202E	43,60	L50452008E	43,60	L81545231E	46,15	L81545247E	46,15
200	50	3"	2400	1	L000014507	53,30	L068011347	53,30	L000042624	55,35	L68013206J	55,35



# Polishing/Satinising



**Lipprox 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	36,40	L15451431A	36,40	L15452433A	40,90	L15452448A	40,90
150	25	1"	3200	1	L15451408E	66,65	L15451431E	66,65	L15452433E	75,85	L15452448E	75,85
200	13	3"	2400	1	L50901408A	50,75	L50901431A	50,75	L68014192A	56,40	L50902448A	56,40
200	25	3"	2400	1	L50901408E	93,30	L50901431E	93,30	L68014192E	102,00	L50902448E	102,00

The abrasive web is wound around a phenolic tube and treated, this ensures constant hardness and abrasiveness over the life of the product. Lipprox 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.



### 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

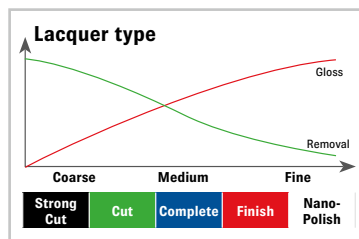
Our polishes are intended for the professional finishing of all lacquer types. Different compounds are available for different finishing steps. Details are given in the figures below.

#### 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
<b>Finishing flaws</b>					
Orange peel	✓	✓	✓	✓	✓
Holograms	-	-	-	✓	✓
Scratches	✓	✓	✓	✓	✓
Weathering	-	✓	✓	-	-
<b>For OEMs</b>					
Paint runs	-	-	-	✓	✓
Dirt inclusions	-	-	-	✓	✓



Use/Lacquer type	1,500	2,000	2,000-3,000	3,000-4,000	2,500-4,000	rpm
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	RRP	Cut	RRP	Complete	RRP	Finish	RRP	Nano-Polish	RRP	
ml	pcs.	Order no.	€	Order no.	€	Order no.	€	Order no.	€	Order no.	€
1000	6	L699940320	22,75	L699740250	22,75	L699940250	22,75	L699740340	22,75	L699940340	43,85

\* 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	9,10	
1000	1	L669002101	47,05	

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

		Metal polish		RRP
ml	pcs.	Order no.	€	
50	10	2103002102	7,85	
1000	1	L669002102	38,20	

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.

## Metal Polishing Kit liquid



		Metal polishing set		RRP
pcs.	Order no.	€		
10	1203600002	11,35		

The 3-part kit contains Metal polish emulsion, sponge and polishing cloth.

**NEW!**

## 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



### USAGE

	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	2,40		2103007012	2,80		2103000461	2,55	
700	8	8103005333*	9,50		8103007012	12,30		8103000462	9,65	

\*white 600g



### 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

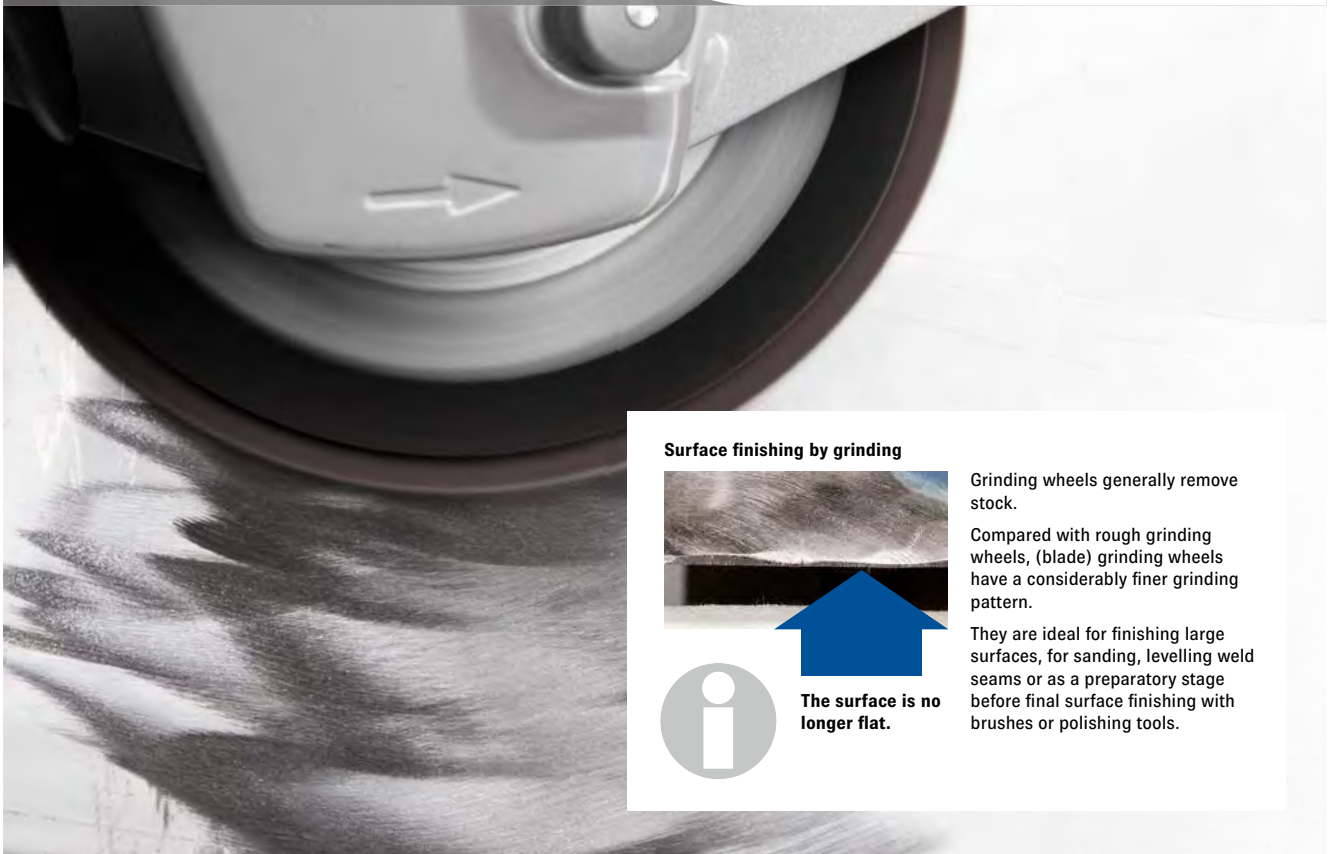
### Surface finishing with brushes



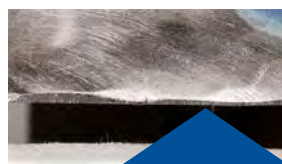
Brush tools are ideal for cleaning and finishing as there is no removal of material from the surface. This avoids striae, grooves or dents resulting from grinding.



# 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 TOOLS FOR ANGLE GRINDERS**



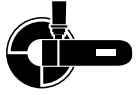
# Grinding

## 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:



This design is used primarily for surface grinding.

B Bevelled model:



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

### TRIM AND MATERIAL

Products available with:	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Zirconia alumina	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aluminium oxide paper	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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>	3,65	<b>3703-003 116</b>	3,65	<b>3703-003 118</b>	3,65
125	22,2	13300	10	<b>3703-003 124</b>	4,05	<b>3703-003 126</b>	4,05	<b>3703-003 128</b>	4,05
178	22,2	8500	10	<b>3703-003 174</b>	11,25	3703-003 176	11,25	3703-003 178	11,25

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 type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
smoothing weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
super finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input 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 type="checkbox"/>	<input type="checkbox"/>	<input 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	3,05	3713-003 116	3,05	3713-003 118	3,05
125	22,2	13300	10	<b>3713-003 124</b>	3,25	<b>3713-003 126</b>	3,25	<b>3713-003 128</b>	3,25
178	22,2	8500	5	3713-003 174	9,05	3713-003 176	9,05	3713-003 178	9,05



# Grinding

## Angle grinders



**USAGE**

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

**TRIM AND MATERIAL**

Products available with: Aluminium oxide fleece →

<input checked="" type="checkbox"/>	Steel
<input checked="" type="checkbox"/>	Cast 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		min-1	pcs.	coarse	RRP	medium	RRP	fine	RRP
Ø	B			Order-No.	€	Order-No.	€	Order-No.	€
115	22,2	4900	10	0003-115 104	16,30	0003-115 106	16,30	0003-115 107	16,30
115	22,2	4900	1	0013-115 104 *	16,70	0013-115 106 *	16,70	0013-115 107 *	16,70

\* mit Gewebestreifen.



**USAGE**

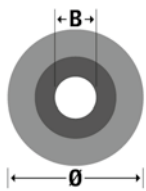
	80	100	150	180	240	280
rough grinding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
fine grinding	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input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

**TRIM AND MATERIAL**

Products available with: Cleaning pad, black, SIC →

<input checked="" type="checkbox"/>	Steel
<input checked="" type="checkbox"/>	Cast 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		min-1	pcs.	Fleece SIC	RRP				
Ø	B			Order-No.	€	Order-No.	€	Order-No.	€
115	22	11000	10	8003-003 115	9,20				
125	22	10000	10	8003-003 127	9,75				
178	22	7000	1	8003-003 178	16,35				



## Cutting disc extra thin



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 contains no iron, sulfur or chlorine and cuts perfectly.  
„Made in Germany“ quality!

## 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>	1,65
125	22,23	1,0	12200	25	straight	<b>4913-115 000</b>	1,95

## Cutting disc



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!

## 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>	1,90
180	22,23	1,6	8600	25	beveled	<b>4933-115 000</b>	2,65
230	22,23	1,9	6600	25	beveled	<b>4943-115 000</b>	3,20

## Cutting disc Freecut



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!

## 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>	1,75
125	22,23	2,0/1,0	12200	25	straight	<b>4963-115 000</b>	1,90

## 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>	2,90
230	22,23	3,0/2,0	6600	25	beveled	<b>4983-115 000</b>	3,70

# Grinding

## Angle grinders



### Rough-grinding wheel



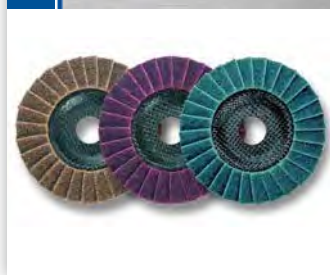
Universal standard rough-grinding wheel that impresses with its high abrasive performance and long service life.

### 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	2,60
125	22,2	6,0	12200	10	beveled	4923-230 000	2,70
180	22,2	4,0	8600	10	beveled	4943-230 000	3,40
180	22,2	6,0	8600	10	beveled	4933-230 000	3,50

### 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.



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	9,75	1953-022 125	9,75	1963-022 125	9,75

# Grinding

## Power drills/High-speed machines

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



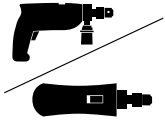
# Grinding

## Power drills/High-speed machines



### Important user information

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

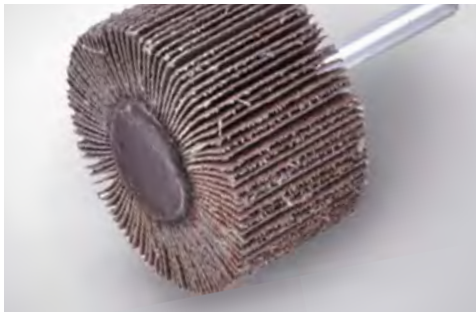


To be noted when selecting brushes and using power drills and high-speed machines:

#### 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.

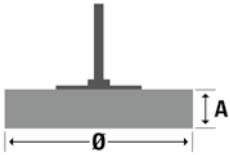
# Grinding

## 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 type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

#### TRIM AND MATERIAL

Products available with:

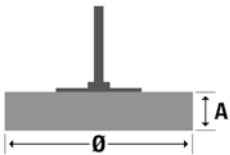
Aluminium oxide paper	Steel	Cast steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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	3,90	0083-003 010	3,90	0123-003 010	3,90
30	20	6	23000	10	0063-003 020	4,90	0083-003 020	4,90	0123-003 020	4,90
40	10	6	17000	10	0063-004 010	4,75	0083-004 010	4,75	0123-004 010	4,75
40	30	6	17000	10	<b>0063-004 030</b>	5,55	<b>0083-004 030</b>	5,55	<b>0123-004 030</b>	5,55
50	10	6	14000	10	0063-005 010	4,85	0083-005 010	4,85	0123-005 010	4,85
50	20	6	14000	10	0063-005 020	5,90	0083-005 020	5,90	0123-005 020	5,90
50	30	6	14000	10	<b>0063-005 030</b>	6,45	<b>0083-005 030</b>	6,45	<b>0123-005 030</b>	6,45
60	20	6	11000	10	0063-006 020	6,65	0083-006 020	6,65	0123-006 020	6,65
60	30	6	11000	10	<b>0063-006 030</b>	7,10	<b>0083-006 030</b>	7,10	<b>0123-006 030</b>	7,10
60	40	6	11000	10	0063-006 040	8,60	0083-006 040	8,60	0123-006 040	8,60

### 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 checked="" type="checkbox"/>
surface planing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburning	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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>	8,55	<b>0153-304 020</b>	8,55	<b>0243-304 020</b>	8,55
40	30	6	8000	10	0083-304 030	10,00	0153-304 030	10,00	0243-304 030	10,00
50	20	6	7500	10	<b>0083-305 020</b>	9,80	0153-305 020	9,80	0243-305 020	9,80
50	30	6	7500	10	<b>0083-305 030</b>	10,40	<b>0153-305 030</b>	10,40	<b>0243-305 030</b>	10,40
50	40	6	7500	10	0083-305 040	12,40	0153-305 040	12,40	0243-305 040	12,40
60	30	6	7000	10	<b>0083-306 030</b>	12,90	<b>0153-306 030</b>	12,90	<b>0243-306 030</b>	12,90
60	40	6	7000	10	0083-306 040	13,15	0153-306 040	13,15	0243-306 040	13,15

# Grinding





**GRINDING TOOLS FOR SATINISERS**



# 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

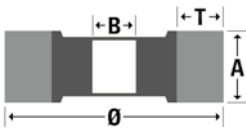
The cylinder shape allows you to achieve the ideal working width of 100 mm without problems. There is no need to fit multiple rings.

# Grinding Satinisers

## Brushes for wood graining

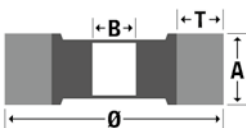


For brushing grain and annual growth rings using hand-held and stationary machines.



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	122,00				
150	80	16	4000	1					0142-703 914	294,00
150	80	16/30	4000	1					1632-703 914	294,00
150	85	16	4000	1			0142-703 044	176,00	3242-703 915	294,00
150	85	16/30	4000	1			1632-703 044	176,00	1632-703 915	310,00
150	120	16	4000	1			0262-713 044	216,00	2852-713 915	398,00
150	120	30	4000	1			2102-713 044	235,00	2152-713 915	398,00
150	140	30	4000	1			<b>0362-713 044</b>	<b>245,00</b>	<b>2552-713 915</b>	<b>424,00</b>

## Fleece roller brushes with fleece



### USAGE

	0,2	0,27	k 60	Fibre	Rustifil 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm					<b>coarse</b>	RRP	<b>medium</b>	RRP	<b>fine</b>	RRP
Ø	A	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	100	19/6	4400	4	<b>1903-100 932</b>	22,00	<b>1903-100 934</b>	22,00	<b>1903-100 936</b>	22,00

mm					<b>very fine</b>	RRP				
Ø	A	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	100	19/6	4400	4	<b>1903-100 937</b>	22,00				

# Grinding Satinisers

## Roller brushes

### crimped wire



#### USAGE

	0,2	0,27	K 80	Fibre	Rustifil 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 checked="" type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

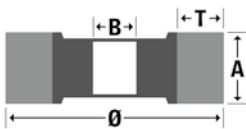
#### TRIM AND MATERIAL

##### Products available with:

	Steel	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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm						0,27	RRP	0,20	RRP		
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	100	17,5	19	8000	1	1203-703 062	98,25	1203-703 342	131,00		
100	12	21	19	8000	1	9803-522 051	11,35	9803-522 341	22,05		
100	25	17,5	19	8000	1	9803-523 052	17,75	9803-523 342	32,80		
100	70	17,5	19	8000	1	9803-523 056	70,20	9803-523 346	90,00		

For roughening, deburring, weld seam cleaning and paint stripping.



## Roller brushes

### abrasive filament



#### USAGE

	0,2	0,27	K 80	Fibre	Rustifil 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 checked="" type="checkbox"/>
dust removal, cleaning	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

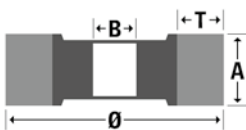
#### TRIM AND MATERIAL

##### Products available with:

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

mm						80 Novofil NH-S	RRP				
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	12	21	19		1	9813-522 911	19,65				
100	25	17,5	19		3	9803-523 912	27,35				
100	70	17,5	19		4	9803-523 916	68,75				
100	100	17,5	19		1	1203-703 912	93,35				

Metal: Roughening, deburring.  
Wood: Structuring of hard and soft wood.



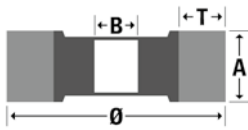
# Grinding Satinisers

## Roller brushes

### Natural Fibre



For dust removal and cleaning.



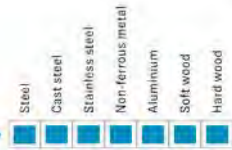
### USAGE

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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
finishing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### TRIM AND MATERIAL

Products available with:

Natural bristle →



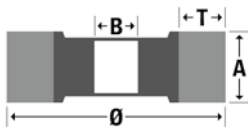
mm						Fibre	RRP				
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	100	17,5	19	8000	1	9803-523 940	127,00				

## Roller brushes

### mixed material



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.



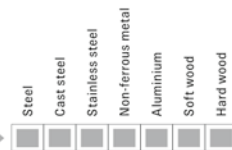
### USAGE

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"/>
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"/>
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"/>
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"/>
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"/>
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"/>
finishing	<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						80 Rustifil	RRP				
Ø	A	T	B	min-1	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
100	12	21	19	8000	1	1203-522 931	33,10				
100	25	21	19	8000	1	1203-522 932	50,30				
100	70	17,5	19	8000	1	1203-522 936	122,00				
100	100	17,5	19	8000	1	1203-703 932	137,00				

# PRODUCT INTRODUCTION

# INTERNAL FINISHING

## **Finishing of bores, perforations, honed surfaces, longitudinal grooves, bearing bores and other internal or difficult-to-reach places**

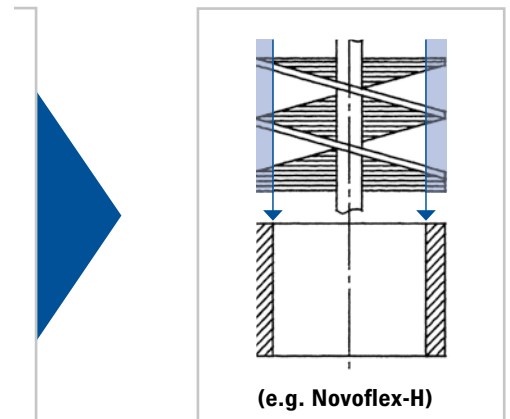
The following chapter contains all the products used for internal finishing.

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 15 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**



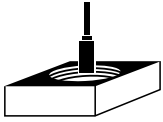
# Internal finishing

## 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 checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" 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.</p> <p>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.</p> <p>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>
---	---	---	---

**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>
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Brushes should be 10 - 15% larger than the diameter of the hole.


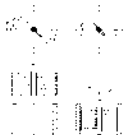
<p><b>Novoflex-B</b></p>  <p><b>rpm 350 – 700</b></p>	<p>Sturdy, self-centring honing tool. Flexible design with abrasive spheres.</p>	<p>Suitable for hand-held and honing machines.</p> <p>For use in CNC and NC machines, processing centres and automatic equipment, clamping in tool spindles also possible.</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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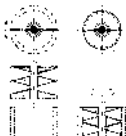
Lubricants must always be used. We recommend lubricating the Novoflex-B with honing oil before use. Mineral oil, engine oil, water-soluble oil or cooling lubricants can be used as alternatives. Honing time: 20 - 40 sec. The process time can be reduced for deburring longitudinal and cross holes. Clean the bore using hot water and detergent and Osborn nylon tube brushes.

# Internal finishing


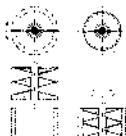
## Introduction & technical information

	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

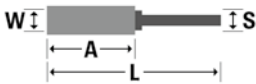
## SITUFT®

### crimped Osborn wire



**PREMIUM**

Double wire core for compressed air and electric tools. Adapter to fix in various power tools.



W = workpiece diameter



#### USAGE

Internal cleaning	<input type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<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"/>	<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"/>

Ni44.600/Ni65.000  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600

#### 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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless steel	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

mm						Osborn 0,08	RRP	Osborn 0,13	RRP	Osborn 0,20	RRP
W	A	L	S	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
6,4	14	54	2,38	12		<b>9907-035 021</b> *	5,50	<b>9907-035 023</b> *	4,65		
8,2	14	54	2,38	12		<b>9907-035 031</b> *	5,85	<b>9907-035 032</b> *	5,70		
9,8	14	54	2,38	12		<b>9907-035 041</b>	5,95	<b>9907-035 042</b> *	5,85		
11	14	54	2,38	12		<b>9907-035 051</b>	6,05	<b>9907-035 052</b> *	5,95		
13	14	54	3,18	12		<b>9907-035 061</b>	5,85	<b>9907-035 062</b> *	5,30		
14,3	16	54	3,18	12		<b>9907-035 081</b>	6,45	<b>9907-035 082</b>	5,40	<b>9907-035 083</b> *	5,20
16,3	16	54	3,18	12		<b>9907-035 086</b>	7,20	<b>9907-035 087</b> *	5,40	<b>9907-035 088</b>	5,20
18	16	54	3,18	12				<b>9907-035 092</b>	5,70	9907-035 093	5,40
19	16	54	3,18	12		<b>9907-035 096</b>	7,45	<b>9907-035 097</b>	5,80	9907-035 098 *	5,45
21	16	57	3,18	12				9907-035 102	5,80		
22,8	16	57	3,18	12				<b>9907-035 107</b>	6,15		
25,4	16	57	3,18	12				<b>9907-035 117</b>	6,30	<b>9907-035 118</b> *	5,70
28,6	16	57	3,18	12				9907-035 127	6,45	9907-035 128	5,80
32	16	57	3,18	12				<b>9907-035 137</b>	6,50	9907-035 138 *	5,85

\* Parts included in the SITUFT®Set (Order-No. 9907-035 000).

mm						Osborn 0,13	RRP				
W	A	L	S	pcs.		Order-No.	€	Order-No.	€	Order-No.	€
6,4	14	54	2,38	12		<b>9907-035 181</b>	6,50				
13	14	54	3,18	12		<b>9907-035 197</b>	8,15				
19	16	54	3,18	12		<b>9907-035 213</b>	9,65				
16,3	16	54	3,18	12		<b>9907-035 205</b>	8,60				
22,8	16	57	3,18	12		<b>9907-035 221</b>	9,85				
25,4	16	57	3,18	12		<b>9907-035 229</b>	10,45				

\* Parts included in the SITUFT®Set (Order-No. 9907-035 000).

## SITUFT®-Set

### crimped Osborn wire



**PREMIUM**

SITUFT® Set: 12 brushes D6 to D32 and two adapters. Parts in this set are marked by an asterisk in the previous table.



#### USAGE

Internal cleaning	<input type="checkbox"/>	<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"/>	<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"/>	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>	<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"/>	<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"/>

Ni44.600/Ni65.000  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600  
Ni44.600

#### 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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless steel	<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"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

pcs.	Order-No.	€	Order-No.	€	Order-No.	€
1	<b>9907-035 000</b>	107,00				

# 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 *	10,10				
10	85	1	9907-075 132 *	10,10				

\* 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).



**USAGE**

Internal cleaning	<input type="checkbox"/>
Deburring	<input type="checkbox"/>
Brush edges/tapered grooves	<input type="checkbox"/>
Derust	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>

1/4" x 5/8" 1000  
Metric Dim. 400-800  
Drg. Dia. Wire 0,08-0,20  
Abrasive Pores 60-200  
Wet/WF 990-320  
Crimp stainless 0,15-0,50  
(mm/Inch)

**TRIM AND MATERIAL**

Products available with:

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

mm					Osborn 0,13		Osborn 0,20			
W	A	L	S	pcs.	Order-No.	RRP €	Order-No.	RRP €	Order-No.	€
6,4	25	89	3,18	12	9907-036 012	4,25				
8,3	25	89	3,18	12	9907-036 017	4,25				
11	25	89	3,18	12	9907-036 022 *	4,60	9907-036 023	4,20		
12,7	25	89	3,18	12	9907-036 027 *	4,60				
14,3	25	89	3,18	12	9907-036 032	4,75	9907-036 033 *	4,50		
16	25	89	3,18	12	9907-036 037 *	4,75				
17,5	25	89	3,18	12	9907-036 042	5,05	9907-036 043 *	4,85		
19	25	89	3,18	12	9907-036 047 *	5,05				
21	25	89	3,18	12	9907-036 052	5,15	9907-036 053 *	5,00		
22	25	89	3,18	12	9907-036 057 *	5,20				
23,8	25	89	3,18	12	9907-036 062	5,40	9907-036 063 *	5,20		
25,4	25	89	3,18	12	9907-036 067 *	5,45				
27	25	89	3,18	12	9907-036 072	5,45	9907-036 073 *	5,20		
30	25	89	3,18	12	9907-036 082 *	5,85				
33,4	25	89	3,18	12			9907-036 093	6,15		

\* 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.	RRP €	Order-No.	RRP €	Order-No.	€
6,4	25	89	3,18	12	9907-036 139	7,35				
11	25	89	3,18	12	9907-036 147	7,40				
12,7	25	89	3,18	12	9907-036 151	7,45				
14,3	25	89	3,18	12	9907-036 155	7,95	9907-036 156	7,45		
17,5	25	89	3,18	12	9907-036 163	8,10	9907-036 164	7,90		
21	25	89	3,18	12	9907-036 171	8,60	9907-036 172	8,35		
23,8	25	89	3,18	12	9907-036 179	9,20				
27	25	89	3,18	12	9907-036 187	10,00	9907-036 188	9,50		
33,4	25	89	3,18	12			9907-036 204	10,20		

\* Parts included in the HELITUF®Set (Order-No. 9907-036 000).

## 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 previous table.

USAGE	NIH 650/NIH 9000	Nylon Dam 400-800	Org. Oxy. Wire 0,08(0,20)	Abrasive impide 60/320	Newell WF 900-3200	Crmo steel wire 0,15-0,50	(Non/Natural)
Internal cleaning	<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"/>
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"/>
Brush edges/tapered grooves	<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"/>
Derust	<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"/>
Thread/drill hole cleaning	<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"/>
Plateau finish	<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	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Products available with:	<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"/>
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 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"/>

pcs.	Order-No.	€	Order-No.	€	Order-No.	€
1	<b>9907-036 000</b>	111,00				

## 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	1	<b>9907-075 126</b> *	20,45				
6	1	<b>9907-075 127</b> *	20,45				

\* Parts included in the HELITUF® Set (Order-No. 9907-036 000).

## Tube & internal brushes crimped wire



USAGE	NIH 650/NIH 9000	Nylon Dam 400-800	Org. Oxy. Wire 0,08(0,20)	Abrasive impide 60/320	Newell WF 900-3200	Crmo steel wire 0,15-0,50	(Non/Natural)
Internal cleaning	<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"/>
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"/>
Brush edges/tapered grooves	<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"/>
Derust	<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"/>
Thread/drill hole cleaning	<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"/>
Plateau finish	<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	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
Products available with:	<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"/>
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"/>

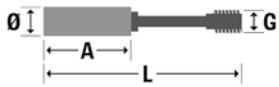
mm					0,15	RRP	0,20	RRP
Ø	A	L	G	pcs.	Order-No.	€	Order-No.	€
10	100	140	M 6	10	<b>0003-815 210</b>	7,00		
12	100	140	M 6	10	<b>0002-815 212</b>	7,25		
14	100	140	M 6	10	<b>0002-815 214</b>	7,40		
15	100	140	5/16 Zoll	10	<b>0002-812 215</b>	7,10		
18	100	140	5/16 Zoll	5			<b>0002-812 218</b>	7,20
20	100	140	5/16 Zoll	10			<b>0002-812 220</b>	7,30



mm					0,30	RRP
Ø	A	L	G	pcs.	Order-No.	€
25	100	160	1/2 Zoll	5	<b>0002-808 125</b>	7,40
30	100	160	1/2 Zoll	5	<b>0002-808 130</b>	7,70
32	100	160	1/2 Zoll	5	<b>0002-808 132</b>	7,75
35	100	160	1/2 Zoll	5	<b>0002-808 135</b>	7,80
36	100	160	1/2 Zoll	5	<b>0002-808 136</b>	7,85
38	100	160	1/2 Zoll	5	<b>0002-808 138</b>	7,90
40	100	160	1/2 Zoll	5	<b>0002-808 140</b>	8,15
44	100	160	1/2 Zoll	5	<b>0002-808 144</b>	8,35
50	100	160	1/2 Zoll	5	<b>0002-808 150</b>	8,60

# Internal finishing

## Tube & internal brushes straight wire



### USAGE

Internal cleaning	<input type="checkbox"/>
Deburring	<input type="checkbox"/>
Brush edges/tapered grooves	<input checked="" type="checkbox"/>
Derust	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>

NiH 600/NiH 7000  
Nylon-Dam 400-800  
Drg. Drg. Wire 030-020  
Abrasive Emile 60-320  
Novell WF 600-320  
Crimp steelwire 0,15-0,50  
(Nylon/Natural)

### 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>	10,80				
28	100	160	1/2 Zoll BSW	5	<b>0003-810 128</b>	11,20				
30	100	160	1/2 Zoll BSW	5	<b>0003-810 130</b>	11,25				
32	100	160	1/2 Zoll BSW	5			<b>0003-810 132</b>	11,25		
38	100	160	1/2 Zoll BSW	5			<b>0003-810 138</b>	11,70		
40	100	160	1/2 Zoll BSW	5			<b>0003-810 140</b>	12,00		
44	100	160	1/2 Zoll BSW	5			<b>0003-810 144</b>	12,05		
50	100	160	1/2 Zoll BSW	5			<b>0003-810 150</b>	12,25		
57	100	160	1/2 Zoll BSW	5			<b>0003-810 157</b>	12,75		
63	100	160	1/2 Zoll BSW	5					<b>0002-808 163</b>	8,95
75	100	160	1/2 Zoll BSW	5					<b>0002-808 175</b>	10,00

mm					0,40	RRP	0,50	RRP
Ø	A	L	G	pcs.	Order-No.	€	Order-No.	€
63	100	160	1/2 Zoll BSW	5	<b>0003-810 163</b>	13,00		
69	100	160	1/2 Zoll BSW	5	<b>0003-810 169</b>	13,15		
75	100	160	1/2 Zoll BSW	5	<b>0003-810 175</b>	13,65		
82	100	160	1/2 Zoll BSW	5	<b>0003-810 182</b>	14,35		
100	100	160	1/2 Zoll BSW	5			<b>0002-808 100</b>	11,65
101	100	160	1/2 Zoll BSW	5			<b>0003-810 100</b>	15,70

## 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>	9,80		
M 6	1000		10	1132-819 110	9,80		
M 12	1000		5	0003-819 112	13,10		
5/16 Zoll BSW	1000		10	1103-819 110	9,80		

Flexible - with a thread to extend heating element brushes and tube brushes.

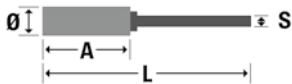


## Tube & internal brushes

### 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"/>	<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"/>

NHA 600/NHS 1000  
Nylon Dam 400-800  
Dip. Ox. Wire 038 (0.20)  
Abrasive Trimble 60-320  
Novofil WF 900-320  
Crmo. sables/m 0.15-0.50  
(Nylon/Natural)

### TRIM AND MATERIAL

Products available with:

Abrasive bristle →

<input type="checkbox"/>	Steel	<input 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
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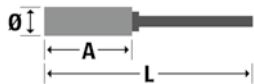
mm					NHS 1000	RRP	NHA 600	RRP
Ø	A	L	S	pcs.	Order-No.	€	Order-No.	€
0,7	12	100	0,42	12	<b>0003-056 400</b>	19,35		
1,2	12	100	0,47	12	<b>0003-056 403</b>	18,55		
1,9	18	100	0,74	12	<b>0003-056 406</b>	18,00		
2,2	18	100	0,93	12	<b>0003-056 409</b>	16,80		
2,6	25	100	1,08	12	<b>0003-056 412</b>	15,90		
3,2	25	100	1,66	12	<b>0003-056 415</b>	15,65		
3,5	25	100	1,66	12	<b>0003-056 418</b>	15,65		
4,2	25	125	2,20	12			<b>0003-056 425</b>	15,40
4,8	25	125	2,20	12			<b>0003-056 427</b>	14,85
5,5	25	125	2,20	12			<b>0003-056 428</b>	14,50
6,6	25	125	3,00	12			<b>0003-056 429</b>	14,10
8,2	25	125	3,00	12			<b>0003-056 432</b>	13,55
9,8	25	125	3,40	12			<b>0003-056 435</b>	14,55
11,5	25	125	3,40	12			<b>0003-056 436</b>	14,05
13	25	125	4,20	12			<b>0003-056 438</b>	14,15
16	25	125	4,20	12			<b>0003-056 441</b>	15,25
17,5	25	125	4,20	12			<b>0003-056 442</b>	15,40
19,4	25	125	5,60	12			<b>0003-056 444</b>	15,55
22,6	25	125	5,60	12			<b>0003-056 447</b>	15,90
25,8	25	125	6,20	12			<b>0003-056 450</b>	16,40

## 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"/>	<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"/>

NHA 600/NHS 1000  
Nylon Dam 400-800  
Dip. Ox. Wire 038 (0.20)  
Abrasive Trimble 60-320  
Novofil WF 900-320  
Crmo. sables/m 0.15-0.50  
(Nylon/Natural)

### TRIM AND MATERIAL

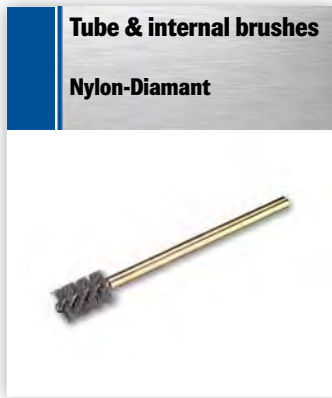
Products available with:

Abrasive bristle →

<input type="checkbox"/>	Steel	<input 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
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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>	9,95	<b>0003-056 326</b>	9,95	
7	50	125	12			0003-056 307	9,95	0003-056 327	9,95	
8	50	125	12			<b>0003-056 308</b>	9,95	<b>0003-056 328</b>	9,95	
10	50	125	12	<b>0003-056 010</b>	8,15	<b>0003-056 310</b>	8,15	<b>0003-056 330</b>	8,15	
13	50	125	12	<b>0002-056 011</b>	8,40	<b>0002-056 311</b>	8,40	<b>0002-056 331</b>	8,40	
16	50	125	12	<b>0002-056 012</b>	8,65	<b>0002-056 312</b>	8,65	<b>0002-056 332</b>	8,65	
19	65	125	12	<b>0002-056 013</b>	9,00	<b>0002-056 313</b>	9,00	<b>0002-056 333</b>	9,00	
22	65	125	12	<b>0002-056 014</b>	9,05	<b>0002-056 314</b>	9,05	<b>0002-056 334</b>	9,05	
25	65	125	12	<b>0002-056 015</b>	9,30	<b>0002-056 315</b>	9,30	<b>0002-056 335</b>	9,30	
32	65	125	12	<b>0002-056 016</b>	11,25	<b>0002-056 316</b>	11,25	<b>0002-056 336</b>	11,25	
38	65	125	12	<b>0002-056 017</b>	11,95	<b>0002-056 317</b>	11,95	<b>0002-056 337</b>	11,95	
50	65	125	12	<b>0002-056 018</b>	13,35	<b>0002-056 318</b>	13,35	<b>0002-056 338</b>	13,35	

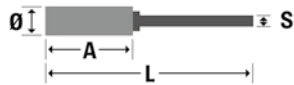
# Internal finishing



## Tube & internal brushes

### Nylon-Diamant

Zinc-plated twisted shaft with brass stabilising sleeve.



### USAGE

Internal cleaning	<input type="checkbox"/>
Deburring	<input type="checkbox"/>
Brush edges/tapered grooves	<input type="checkbox"/>
Derust	<input type="checkbox"/>
Thread/drill hole cleaning	<input type="checkbox"/>
Plateau finish	<input type="checkbox"/>

Nickel/Nickel-Niobium  
 Nylon-Diamant 400-800  
 Drg. Dia. Wire (D30-D20)  
 Abrasive Particle (P1-320)  
 Novelty WF (D0-D20)  
 Drg. Steel/Wire (D15-D10)  
 Nylon/Vibrant

### TRIM AND MATERIAL

Products available with:

Nylon-Diamond

Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium	Soft wood	Hard wood
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mm					Grit 400		Grit 800	
W	A	L	S	pcs.	Order-No.	RRP	Order-No.	RRP
2	20	100	1	2	0008-852 002	70,65	0008-852 802	70,65
2,5	20	100	1	2	0018-852 002	74,20	0018-852 802	74,20
3	20	100	1,5	2	0008-852 003	77,15	0008-852 803	77,15
3,5	20	100	1,5	2	0018-852 003	79,95	0018-852 803	79,95
4	20	115	3	2	0008-852 004	82,55	0008-852 804	82,55
5	20	115	3	2	0008-852 005	86,95	0008-852 805	86,95
6	20	115	3	2	0008-852 006	91,70	0008-852 806	91,70
7	20	115	3	2	0008-852 007	94,95	0008-852 807	94,95
8	20	115	3	2	0008-852 008	102,00	0008-852 808	102,00
9	20	115	3	2	0008-852 009	108,00	0008-852 809	108,00
10	20	115	4	2	0008-852 010	113,00	0008-852 810	113,00
12	20	115	6	2	0008-852 012	117,00	0008-852 812	117,00
15	20	115	6	2	0008-852 015	120,00	0008-852 815	120,00
17	20	115	6	2	0008-852 017	125,00	0008-852 817	125,00
19	20	115	6	2	0008-852 019	127,00	0008-852 819	127,00
22	20	115	6	2	0008-852 022	134,00	0008-852 822	134,00
25	20	115	6	2	0008-852 025	141,00	0008-852 825	141,00

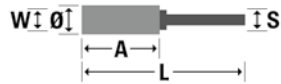


## novoflex-B®

### abrasiver Besatz

PREMIUM

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 SIC 120		Grit SIC 180		Grit SIC 240	
W	Ø	A	L	S	pcs.	Order-No.	RRP	Order-No.	RRP	Order-No.	RRP
7	8	50	200	3,6	1			9828-036 308	20,25		
8	9	50	200	3,6	1	9818-036 309	21,05	9828-036 309	21,05		
9	10	50	200	3,6	1	9818-036 310	21,90	9828-036 310	21,90		
10	11	60	200	3,6	1	9818-036 311	22,35	9828-036 311	22,35	9838-036 311	23,70
11	12	60	200	3,6	1	9818-036 312	22,85	9828-036 312	22,85		
12	13	60	200	3,6	1	9818-036 313	23,25	9828-036 313	23,25	9838-036 313	24,60
14	15,5	60	200	3,6	1	9818-036 316	23,70	9828-036 316	23,70		
16	18	60	200	4,6	1					9838-036 315	25,15
18	20	60	200	4,6	1	9818-036 318	25,15	9828-036 318	25,15	9838-036 318	26,65
20	22	70	200	4,6	1	9818-036 320	25,65	9828-036 320	25,65	9838-036 320	27,20
22	25	70	200	4,6	1	9818-036 322	26,10	9828-036 322	26,10	9838-036 322	27,65
24	27	70	200	5,1	1	9818-036 325	27,05	9828-036 325	27,05	9838-036 325	26,65
25	28	70	200	5,1	1	9818-036 327	28,00	9828-036 327	28,00		
27	30	70	200	5,1	1	9818-036 328	28,85	9828-036 328	28,85	9838-036 328	30,55
29	32	70	200	5,1	1	9818-036 330	29,80	9828-036 330	29,80	9838-036 330	31,55
32	35	70	200	5,7	1	9818-036 332	30,70	9828-036 332	30,70	9838-036 332	32,55
35	38	70	200	5,7	1	9818-036 335	32,25	9828-036 335	32,25	9838-036 335	34,20
38	41	70	200	5,7	1	9818-036 338	33,75	9828-036 338	33,75		
41	45	70	200	5,7	1	9818-036 341	35,30	9828-036 341	35,30		
45	48	70	200	5,7	1	9818-036 345	36,80	9828-036 345	36,80	9838-036 345	39,05
48	51	70	200	6,5	1	9818-036 348	38,35	9828-036 348	38,35	9838-036 348	40,65
48	51	76	203	6,5	1	9818-036 351	39,80	9828-036 351	39,80	9838-036 351	41,15
51	54	70	200	6,5	1	9818-036 354	40,90	9828-036 354	40,90	9838-036 355	43,40
54	57	70	200	6,5	1	9818-036 357	41,35	9828-036 357	41,35	9838-036 357	43,80
57	60	70	200	7,3	1	9818-036 360	42,05	9828-036 360	42,05	9838-036 360	44,60
60	64	70	200	7,3	1	9818-036 364	42,80	9828-036 364	42,80		



Oscillating use at approx. 600-1400 min-1.  
Version with very dense trim.



### USAGE

Internal cleaning

Deburring

Brush edges/tapered grooves

Derust

Thread/drill hole cleaning

Plateau finish

Ni44 670/Ni65 7000  
Vulcan Daim 400-800  
Dip. Osc. Wire 038 020  
Abrasive inside 60/320  
Novofil-WF 600-320  
Crmo. sikkeli 0131-039  
(Nyt/Intanal)

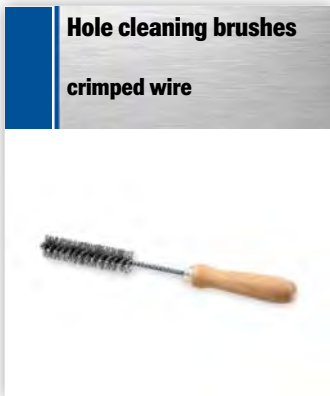
### TRIM AND MATERIAL

Products available with:

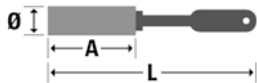
Abrasive bristle →

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 type="checkbox"/>	<input type="checkbox"/>

mm					Grit 120		Grit 320	
Ø	A	L	S	pcs.	Order-No.	RRP	Order-No.	RRP
38	50	125	6,35	2	9907-036 304	80,65	9907-036 305	80,65
42	50	125	6,35	2	9907-036 491	85,10		
46	50	125	6,35	2	9907-036 489	90,20		
51	50	125	6,35	2	9907-036 306	93,60		
51	50	125	6,35	12			9907-036 307	93,60
56	50	125	6,35	2	9907-036 486	99,45	9907-036 487	99,45
63	90	160	9,53	2	9907-036 308	95,10	9907-036 309	95,10
76	100	160	9,53	2	<b>9907-036 310</b>	110,00	9907-036 311	110,00
89	100	160	9,53	2	9907-036 312	116,00		
102	100	160	9,53	2	9907-036 314	198,00	9907-036 315	198,00
115	100	152	9,53	2	9907-036 316	221,00		
127	125	230	12,7	2	9907-036 318	246,00		
140	125	235	12,7	2	9907-036 320	280,00		
153	140	230	12,7	2	9907-036 322	284,00		



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	<b>0002-892 215</b>	9,50					
20	100	280	10			<b>0002-892 220</b>	9,80			
25	100	280	10					<b>0002-892 225</b>	10,00	
30	100	280	10					<b>0002-892 230</b>	10,40	

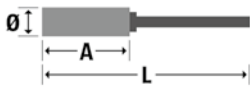
# Internal finishing



## Nozzle cleaning brushes

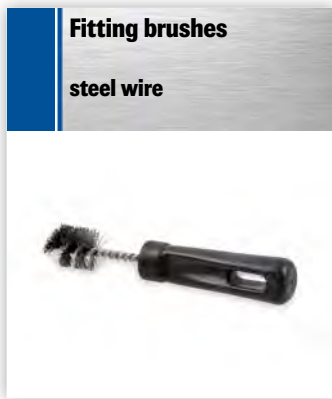
Wire/Nylon

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	7,30	0003-816 504	7,95	0003-816 304	12,00
5	100	300	20	0003-816 205	7,35	0003-816 505	7,95	0003-816 305	12,00
6	100	300	20	0003-816 206	7,35	0003-816 506	7,85	0003-816 306	12,00
8	100	300	20	0003-816 208	6,30	0003-816 508	7,85	0003-816 308	8,70
10	100	300	20	0003-816 210	6,30	0003-816 510	7,55	0003-816 310	8,70
12	100	300	20	0003-816 212	6,70	0003-816 512	7,55	0003-816 312	8,70
15	100	300	20	0002-816 215	6,80	0002-816 515	7,70	0002-816 315	9,00
18	100	300	20	0002-816 218	6,85	0002-816 518	7,70	0002-816 318	9,00
20	100	300	20	0002-816 220	6,85	0002-816 520	7,70	0002-816 320	9,00
25	100	300	20	0002-816 225	7,20	0002-816 525	8,60	0002-816 325	9,15
30	100	300	20	0002-816 230	7,30	0002-816 530	8,80		

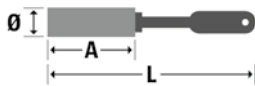
mm				Nylon	RRP				
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
3	100	300	1	0003-816 803	2,40				
4	100	300	20	0003-816 804	2,40				
5	100	300	20	0003-816 805	2,40				
6	100	300	20	0003-816 806	2,40				
8	100	300	20	0003-816 808	2,40				
10	100	300	20	0003-816 810	2,50				
12	100	300	20	0003-816 812	2,50				
15	100	300	20	0003-816 815	2,80				
18	100	300	20	0003-816 818	2,80				
20	100	300	20	0003-816 820	2,95				
25	100	300	20	0003-816 825	3,05				
30	100	300	20	0003-816 830	3,15				



## Fitting brushes

steel wire

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



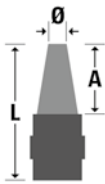
mm				0,12 Steel wire	RRP	0,20 Steel wire	RRP	0,26 Steel wire	RRP
Ø	A	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
6	25	160	12	0003-075 250	6,00				
10	25	160	12	0003-075 251	6,10				
13	25	160	12			0003-075 252	6,15		
16	25	160	12			0003-075 253	6,15		
19	28	160	12			0003-075 254	6,25		
23	25	160	12			0003-075 255	6,25		
26	25	160	12			0003-075 256	6,45		
29	32	160	12					0003-075 257	6,55
33	35	160	12					0003-075 258	6,70
43	38	160	6					0003-075 259	6,80
56	45	160	6					0003-075 260	7,00

## Battery terminal brush

steel wire



To clean batteries (pole and clamp cleaning).



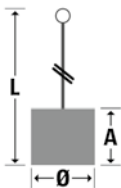
mm				Steel wire Crimped	RRP				
Ø	T	L	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
15/ 25	65	120	12	<b>0008-493 100</b>	9,80				

## 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	11,70				
125	120	3000	10	<b>0002-825 213</b>	13,25				
140	120	3000	10	0002-825 214	13,90				
160	120	3000	10	<b>0002-825 216</b>	14,30				
210	120	2000	10	0002-824 221	13,75				

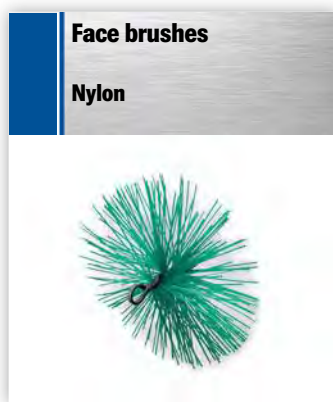
# Internal finishing



mm Ø	G	pcs.	Steel wire	RRP			
			Order-No.	€	Order-No.	€	Order-No.
100	M12 x175	5	0003-890 100	8,05			
125	M12 x175	5	0003-890 125	8,15			
150	M12 x175	5	<b>0003-890 150</b>	8,30			
200	M12 x175	5	0003-890 200	9,55			
250	M12 x175	5	0003-890 250	10,25			
300	M12 x175	5	0003-890 300	10,70			
350	M12 x175	5	0003-890 350	11,35			



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>	12,10			
250x250	M12 x175	5	0003-896 250	14,15			
300x300	M12 x175	5	0003-896 300	17,80			
350x350	M12 x175	5	0003-896 350	25,20			



mm Ø	G	pcs.	PPN Green	RRP			
			Order-No.	€	Order-No.	€	Order-No.
150	M12 x175	5	<b>0003-890 815</b>	9,85			
200	M12 x175	5	<b>0003-890 820</b>	11,85			
250	M12 x175	5	0003-890 825	13,00			
300	M12 x175	5	0003-890 830	16,40			

## Face brushes

Nylon



mm				PPN Green	RRP				
Ø	G	pcs.	Order-No.	€	Order-No.	€	Order-No.	€	
150	M12 x175	5	0003-870 815	12,20					
200	M12 x175	5	0003-870 820	14,25					
250	M12 x175	5	0003-870 825	15,45					
300	M12 x175	5	0003-870 830	19,05					

## 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>	10,10	<b>0003-844 100 *</b>	13,60		
18	1500	M12	5	<b>0003-824 150</b>	11,35				
18	2000	M12	5	<b>0003-824 200</b>	13,80	<b>0003-844 200 *</b>	17,00		
20	1000	M12	5	0003-834 100	19,80				
20	1500	M12	5	0003-834 150	21,85				
20	2000	M12	5	0003-834 200	23,70				

\*self-locking

Plastic covered, not flexible.

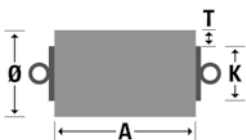
## Sewer cleaning brushes

Elaston



mm					Elaston crimped	RRP				
Ø	T	K	A	pcs.	Order-No.	€	Order-No.	€	Order-No.	€
80	15	40	100	1	0001-385 108	148,00				
105	25	50	100	1	0001-385 110	172,00				
150	35	80	150	1	0001-385 115	209,00				
200	50	100	200	1	0001-385 120	271,00				
250	50	150	230	1	0001-385 125	417,00				

Plastic body with eyelets on both sides.









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0001-102 016	85	0001-432 614	78	0002-502 343	54	0002-505 161	35	0002-509 142	59
0001-102 095	85	0001-432 615	78	0002-502 542	36	0002-505 161	53	0002-509 143	41
0001-104 924	86	0001-432 622	78	0002-502 542	54	0002-505 162	35	0002-509 143	59
0001-110 114	88	0001-432 623	78	0002-503 132	53	0002-505 162	53	0002-509 144	41
0001-120 097	87	0001-432 624	78	0002-503 132	35	0002-505 163	35	0002-509 144	59
0001-122 096	87	0001-432 625	78	0002-503 141	35	0002-505 163	53	0002-509 162	41
0001-122 596	87	0002-056 011	143	0002-503 141	53	0002-505 332	54	0002-509 162	59
0001-150 592	79	0002-056 012	143	0002-503 142	35	0002-505 332	36	0002-509 163	41
0001-150 593	79	0002-056 013	143	0002-503 142	53	0002-505 341	54	0002-509 163	59
0001-150 594	79	0002-056 014	143	0002-503 143	53	0002-505 341	36	0002-509 164	59
0001-150 595	79	0002-056 015	143	0002-503 143	35	0002-505 342	36	0002-509 164	41
0001-150 596	79	0002-056 016	143	0002-503 331	54	0002-505 342	54	0002-509 165	59
0001-151 125	79	0002-056 017	143	0002-503 331	36	0002-505 343	36	0002-509 167	59
0001-151 132	79	0002-056 018	143	0002-503 332	36	0002-505 343	54	0002-509 192	59
0001-151 133	79	0002-056 311	143	0002-503 332	54	0002-505 361	54	0002-509 192	41
0001-151 134	79	0002-056 312	143	0002-503 333	54	0002-505 361	36	0002-509 193	41
0001-151 135	79	0002-056 313	143	0002-503 333	36	0002-505 362	36	0002-509 193	59
0001-151 136	79	0002-056 314	143	0002-503 341	54	0002-505 362	54	0002-509 194	41
0001-151 332	79	0002-056 315	143	0002-503 341	36	0002-505 363	54	0002-509 194	59
0001-151 333	79	0002-056 316	143	0002-503 342	36	0002-505 363	36	0002-509 342	41
0001-151 334	79	0002-056 317	143	0002-503 342	54	0002-505 542	36	0002-509 342	59
0001-151 335	79	0002-056 318	143	0002-503 343	36	0002-505 542	54	0002-509 343	41
0001-151 336	79	0002-056 331	143	0002-503 343	54	0002-506 132	35	0002-509 343	59
0001-151 392	79	0002-056 332	143	0002-503 542	54	0002-506 132	53	0002-509 344	41
0001-151 393	79	0002-056 333	143	0002-503 542	36	0002-506 141	35	0002-509 344	59
0001-151 394	79	0002-056 334	143	0002-504 132	35	0002-506 141	53	0002-509 348	71
0001-151 395	79	0002-056 335	143	0002-504 132	53	0002-506 142	35	0002-509 362	59
0001-151 396	79	0002-056 336	143	0002-504 141	35	0002-506 142	53	0002-509 362	41
0001-152 022	79	0002-056 337	143	0002-504 141	53	0002-506 143	53	0002-509 363	59
0001-152 023	79	0002-056 338	143	0002-504 142	53	0002-506 143	35	0002-509 363	41
0001-152 024	79	0002-501 132	35	0002-504 142	35	0002-506 161	35	0002-509 364	59
0001-152 025	79	0002-501 132	53	0002-504 143	35	0002-506 161	53	0002-509 364	41
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9906-021 183	67	9907-035 000	139	9907-036 163	140	L068011347	111
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9906-022 051	67	9907-035 023	139	9907-036 171	140	L15451408E	112
9906-022 055	67	9907-035 031	139	9907-036 172	140	L15451431A	112
9906-022 065	67	9907-035 032	139	9907-036 179	140	L15451431E	112
9906-022 066	67	9907-035 041	139	9907-036 187	140	L15452433A	112
9906-022 081	67	9907-035 042	139	9907-036 188	140	L15452433E	112
9906-022 082	67	9907-035 051	139	9907-036 204	140	L15452448A	112
9906-022 085	67	9907-035 052	139	9907-036 304	145	L15452448E	112
9906-022 086	67	9907-035 061	139	9907-036 305	145	L50452008E	111
9906-026 011	23	9907-035 062	139	9907-036 306	145	L50901408A	112
9906-026 012	23	9907-035 081	139	9907-036 307	145	L50901408E	112
9906-026 051	24	9907-035 082	139	9907-036 308	145	L50901431A	112
9906-026 053	24	9907-035 083	139	9907-036 309	145	L50901431E	112
9906-026 116	23	9907-035 086	139	9907-036 310	145	L50902448A	112
9906-026 117	23	9907-035 087	139	9907-036 311	145	L50902448E	112
9906-026 247	24	9907-035 088	139	9907-036 312	145	L669-002 101	115
9906-026 248	24	9907-035 092	139	9907-036 314	145	L669-002 102	115
9906-026 249	24	9907-035 093	139	9907-036 315	145	L68013206J	111
9906-026 280	23	9907-035 096	139	9907-036 316	145	L68014192A	112
9906-026 281	23	9907-035 097	139	9907-036 318	145	L68014192E	112
9906-026 365	23	9907-035 098	139	9907-036 320	145	L699-740 250	114
9906-026 500	24	9907-035 102	139	9907-036 322	145	L699-740 340	114
9906-026 501	24	9907-035 107	139	9907-036 486	145	L699-940 250	114
9906-030 302	56	9907-035 117	139	9907-036 487	145	L699-940 320	114
9906-030 304	56	9907-035 118	139	9907-036 489	145	L699-940 340	114
9906-030 305	56	9907-035 127	139	9907-036 491	145	L81545202E	111
9906-030 308	56	9907-035 128	139	9907-075 126	141	L81545231E	111
9906-030 310	56	9907-035 137	139	9907-075 127	141	L81545247E	111
9906-030 311	56	9907-035 138	139	9907-075 128	61		
9906-030 312	56	9907-035 181	139	9907-075 128	45		



## 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)	560 mm	706 mm	706 mm	706 mm
Height (C)	540 mm	540 mm	540 mm	540 mm
Width Forklift-Adapter (D)	180 mm (170)	180 mm (170)	180 mm (170)	180 mm (170)
	WP 210	WP 210	WP 210	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 1000 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

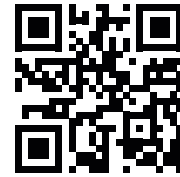


Professional sweeping solutions for agriculture, plus livestock brushes

## 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- and sand-protection systems for turnouts.

### 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



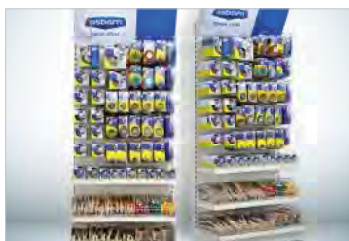
Brush rollers for deburring, cleaning/deoxydising, resin removal, plus finishing and cleaning of press plates

### 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.

### Individual Trading Concepts



A flexible and appealing presentation at the POS: Design your own saleswall.

### DRONCO Product catalogue



The Dronco catalogue as PDF-Download:

**Scan the QR-Code** and download the recent Dronco catalogue as PDF or view online.

# 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.



**Osborn International GmbH**

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