



Tools for Burnishing Machines

Product Catalog

Osborn worldwide



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

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Technical information & safety information for brushes



Working and clamping width of a brush

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



Working and safety speeds

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



Brush diameter and trim length

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

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



Optimal positioning of the brush in relation to the workpiece

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

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



Filament density of brushes

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

Fill Materials. Types and Usage.

For our tools, we only use filling materials developed in our house or selected specially. Regular quality tests in our R&D labs guarantee highest material quality at all times. You can see in the following table which materials we use for the tools in this catalogue, their properties and benefits, and the workpiece materials on which they are deployed.



Steel wire



Stainless steel wire



Cordwire



Novofil®



Fibre

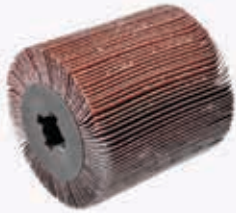
Material	Property	Additional Properties	Benefits	Used on
Steel wire	knotted	Most common trim material for brushes	<ul style="list-style-type: none"> Dimensionally stable Diversity of applications 	Steel, cast iron, crimped softwood, hardwood
Stainless steel wire	crimped	Standard alloys: 1.4310 and 1.4401 (1.4571 on request)	<ul style="list-style-type: none"> Usage in particular where residues of steel wires would adversely affect the surface (such as rust spots) 	Stainless steel, nonferrous metals, aluminium
Brass-coated steel wire	Cordwire	stranded	<ul style="list-style-type: none"> Particularly well suited to texturing wood 	Steel, cast iron, Cordwire stranded softwood, hardwood
Novofil®	round	High temperature resistance; available with different hardness, grit and filament thicknesses; abrasive can be made of chromium oxide, silicone carbide, aluminium oxide, zirconium, diamond or nylon resistant to extreme heat.	<ul style="list-style-type: none"> High flexibility and trim density, prolonged life For working with workpieces particular high in contours 	Steel, cast iron, stainless steel, nonferrous metals, aluminium
Fibre		Pure plant fibre	<ul style="list-style-type: none"> For wet and dry application Heat-resistant Also suitable for polishing in conjunction with polishing compound 	All materials



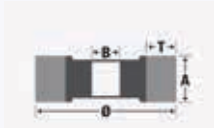
Burnishing Machines

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Abrasive Rollers



Appearance can vary from picture depending on variant.



EUPSRB001 | SUPERIOR ★★★★★

Coated abrasive flap rollers

Coated abrasive flap rollers, industrial quality, with bore 19 and 4 keyways.

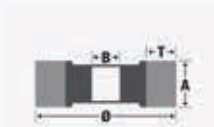
- Coated abrasive with aluminium oxide
- Generates a homogeneous surface pattern

Application: For pre-sanding and texturing.

ø	A	B	RPM max.	DU	PKG.	Aluminium Oxide 40	Aluminium Oxide 60	Aluminium Oxide 80	Aluminium Oxide 120
100	100	19	5000	1	POS Box	● 0043-010 100	● 0063-010 100	● 0083-010 100	● 0123-010 100



Appearance can vary from picture depending on variant.



EUPSRB002 | SUPERIOR ★★★★★

Coated abrasive and non-woven combi rollers

Abrasive flap rollers with non-woven and abrasive cloth combined, industrial quality.

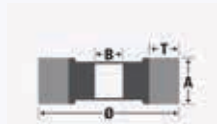
- Coated abrasive with aluminium oxide
- Generates a fine surface pattern
- Ideal for removing small scratches

Application: For preparation of a satin finishing process.

ø	A	B	RPM max.	DU	PKG.	Aluminium Oxide 60 coarse	Aluminium Oxide 80 medium	Aluminium Oxide 120 fine
100	100	19	5000	1	POS Box	● 0063-410 100	● 0083-410 100	● 0123-410 100



Appearance can vary from picture depending on variant.



EUPSRB003 | SUPERIOR ★★★★★

Non-woven (satin) finishing rollers

Satin finish rollers with non-woven abrasive material, industrial quality.

- Generates a satin, matted surface on all materials
- The surface pattern varies depending on the grit (from coarse to very fine)

Application: For creating satin finished surfaces.

ø	A	B	RPM max.	DU	PKG.	Aluminium Oxide coarse	Aluminium Oxide fine	Aluminium Oxide very fine
100	100	19	5000	1	POS Box	● 0083-310 100	● 0183-310 100	● 0283-310 100

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0043010100	0083010100	8	0123010100	8	0283310100	9
0063010100	0083310100	9	0123410100	8		

Finish. First.

The Global Leader in Surface Treatment Solutions and Finishing Tools

Osborn GmbH
Ringstraße 10
35099 Burgwald
Germany

Phone: +49 (0)6451 588-0

Fax: +49 (0)6451 588-206

info@osborn.de

www.osborn.com

General

The tools shown in this catalogue, and the information on delivery scopes, appearances, performances and dimensions, correspond to information available at the time of print. We are enhancing our products continually. We reserve the right to make changes to products and prices.

In the event prices are printed in the catalogue, all previous price lists are rendered void on publication of this catalogue. All prices are recommended retail prices in Euro per piece. VAT, packaging, transport/postal charges and insurance are extra. Our general terms and conditions apply for all orders.

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