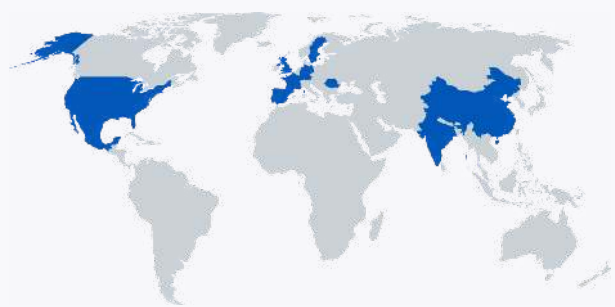




Punched Brushes

Product Catalogue

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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Punched brushes

Punched brushes are extremely versatile and can be precisely matched to the application. This applies in particular to the wide range of outside diameters and installation widths. Due to the plastic or wooden bodies used, a significantly lower dead weight can be achieved compared to metal body brushes, which has a positive effect on the required drive power of the brush system. Individual holes are drilled in the body in a fixed pattern and the bristle material is punched in. The number of holes in the brush body and their spacing from each other ultimately determine the fill density of the brush.

Punched brushes are therefore used in a lower speed range and are suitable for both dry and wet applications. For applications in the food industry bodies and bristles are available that meet exactly these requirements.

Advantages

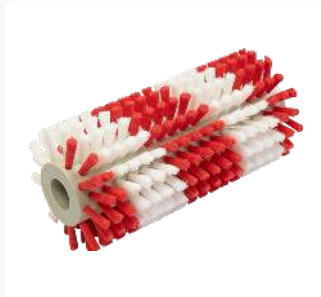
- Variable outside diameters and working widths
- Variable fill densities
- Wide range of bristles and wires
- Almost infinite configuration possibilities
- Low dead weight
- Good price-performance ratio

APPLICATIONS

- cleaning
- washing
- guiding
- transporting
- stripping
- straightening
- oiling, sealing
- deburring
- derusting
- paint stripping
- pressing
- picking up
- braking
- sorting
- distributing and many more

Types of Punched Brushes

We offer disc brushes, lath brushes and wheel/roller brushes in punched shape. A specialty are our Multizack roller brushes, which you will find at the end of the chapter.



Wheel and Roller Brushes



Disc Brushes



Lath Brushes



Multizack Brushes

Fill Materials

Non-abrasive bristle								
D	Nylon 6.0	Nylon 6.6	Nylon 6.10/12	PPN	Steel wire	Brassed	Stainless steel	Brass
Application	dry	wet	wet, for food industry	acidic and alkaline areas	deburring, derust, roughen	deburring, derusting, toughening, texturing wood	deburring, roughen, clean	non-ferrous metals
0.20	X	X	X		X		X	X
0.30	X	X	X	X	X	X	X	X
0.50	X	X	X	X				
0.60	X	X	X					
0.80	X	X	X	X				
1.00	X	X	X					
1.50	X	X	X					
straight	X	X	X	X	X	X	X	
crimped	X	X	X	X	X	X	X	X

Abrasive bristle					Natural bristle	
D	SIC	Ceramics	Aluminium oxyde	Diamond	Horsehair	Tampico
Application	deburring, universal, texturing wood	deburring of steel and stainless steel, cast iron	deburring, surface processing of non-ferrous metal	deburring, suitable for carbide	clean, remove dust, transport, press	polish, clean, suitable for high temperatures
46	X		X			
60	X		X			
80	X	X	X			
120	X	X	X			
180	X	X	X			
240	X	X	X	X		
320	X	X	X	X		
600	X		X	X		
straight	X	X	X	X		
crimped					X	X



Punched Disc brushes

Disc brushes are used in a wide variety of industries and sectors when flat surfaces or geometrically demanding components are to be machined. Disc brushes with abrasive bristles are mainly used for deburring of components with machined surfaces or for flat parts. It is necessary that the disc brushes are used with a component overlap of approx. 20 % of the brush diameter in order to achieve an effective and consistent deburring result. It is also important to match the disc brushes with the correct speed to the corresponding brush diameter. As an example, a disc brush with \varnothing 150 mm should be used at approx. 1,100 - 1,200 rpm.

Appearance can vary from picture depending on variant.

The area in the center of a disc brush, free and not filled with bristles, the so-called "free center" is necessary so that the difference in circumferential speed from the outer \varnothing to the center of the brush is not too great. Which ensures stable processing and uniform wear of bristles and wires.



If you are unsure and would like advice, we are happy to help: service@osborn.de

Customized special design		
\varnothing	K	T
from 30-500 possible	10-40	14-125

Standard diameter		
\varnothing	K	T
130 - M14	20	14 - 125
150 -M14	20	14 - 125
150	25	14 - 125
165	25	14 - 125
175	25	14 - 125
Body material: plastic, wood, multiplex		



Punched Lath brushes

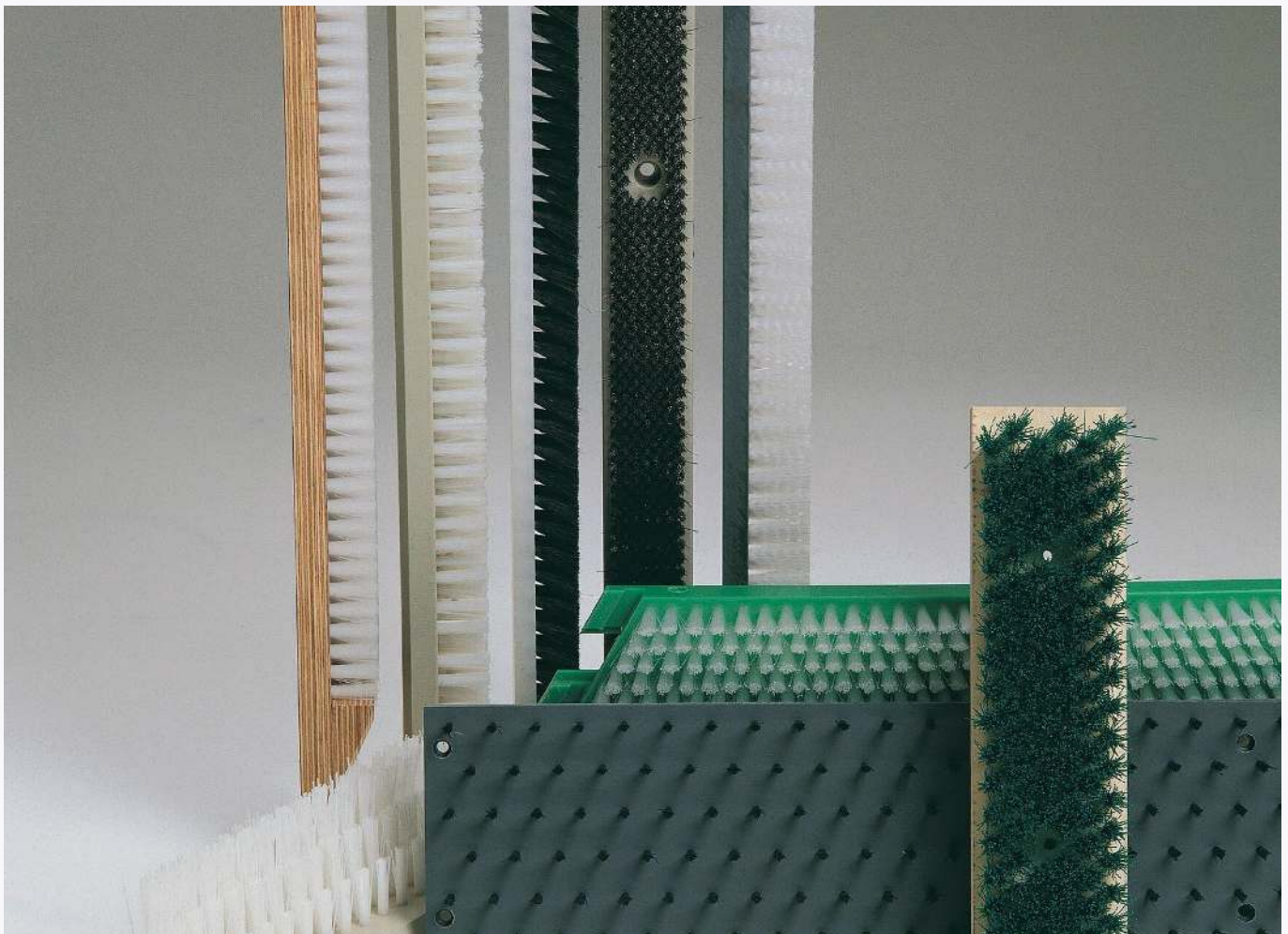
The strip brushes are used in many areas of industry for transporting and positioning a wide variety of components. In addition to the requirements for aligning, braking, wiping and noise reduction in the material flow of parts, the lath brushes are also used for materials with sensitive surfaces such as paper, glass, plastic, etc. as a guiding, sliding and supporting element. Here, the large variety of possible combinations of trim and body materials in a wide range of dimensions meets the requirements.

If you would like advice, we would be happy to help you: service@osborn.de

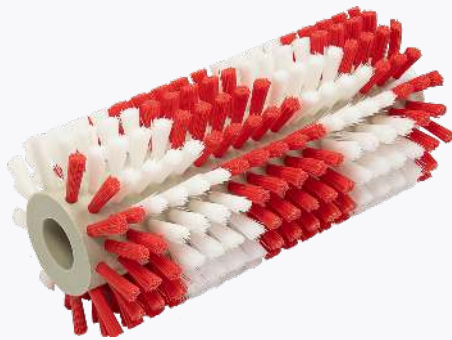
Appearance can vary from picture depending on variant.



	Minimal	Maximal
H	10	100
B	10	400
L	10	1000
T	10	100



Punched Wheel and Roller brushes

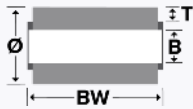


The punched wheel/roller brushes are special, versatile and are used in a wide range of industrial applications. In addition to cleaning conveyor belts and metal sheets, they are often used for transporting, wiping, washing, dedusting, oiling, guiding, pressing on, etc. A wide range of applications can also be found in the food sector.

For the use on the corresponding machines and drives, we also offer the corresponding mounting and drive shafts in steel and stainless steel for the stamped roller brushes. We will manufacture them according to your specifications.

If you are unsure and would like advice, we are happy to help:
service@osborn.de

Appearance can vary from picture depending on variant.



Ø Brush		BW Body length	T Trim length
K Body Ø in mm	Min. in mm	Max. in mm	Min. max. in mm
20	25	270	6.5 - 800
40	45	290	6.5 - 800
60	65	310	6.5 - 800
80	85	330	6.5 - 800
100	105	350	6.5 - 800
120	125	370	6.5 - 800
140	145	390	6.5 - 800
160	165	410	6.5 - 800
180	185	430	6.5 - 800
200	205	450	6.5 - 800
220	225	470	6.5 - 800
240	245	490	6.5 - 800
250	255	500	6.5 - 800

Abrasive bristles:

maximum body length 1,500 mm

Wire, non-abrasive bristles:

Maximum body length 800 mm. Can be extended up to 3,000 mm by means of segmentation.



EUPBRB006 | SUPERIOR ★★★★★

Roller brushes for wood brushing machines, abrasive filament

Roller brush with abrasive filament, industrial quality, for use on stationary wood brushing machines.

Appearance can vary from picture depending on variant.



- Uniform trim distribution in dense or light punching density ensures a homogeneous result
- Long service life; therefore reduced tool and unit costs
- Individual brush design for your application purposes and according to your requirement profile

Application: Processing, structuring, finishing, deburring of wood boards in stationary brush machines.



Do you need a customized brushing solution?

We manufacture punched brushes to customer specifications to suit your applications and machines. We can produce almost any face width, brush diameter and adaptation. Get in touch with us.

info@osborn.de

Ø	T	BW	B		Silicon Carbide 60	Silicon Carbide 80	Silicon Carbide 120
150	25	600	40	1	7261451914	7281451914	8611451914

MultiZack® – Punched Brush System

Modular, Simple and Fast.

A multitude of configuration options.

The MultiZack® brush system from Osborn is a modular design system. In a modular system, brush bodies, filler arrangements, filler densities and various filler materials can be selected and may also be combined. Seven standardised body diameters are available. The bodies are made from polypropylene with high glass fibre content. The bodies are dimensionally stable, acid and alkali-resistant, safe for use in the food industry, they are light and have a very long service life.

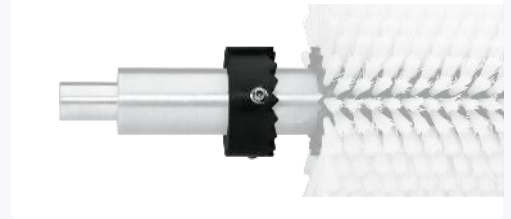
Individual brush segments can be pushed onto a shaft one after the other. The segments are then secured at both ends of the shaft by an adjusting ring. For processing widths above 800 mm additional locking screws are used to secure individual segments.

Replacing worn brush segments is very easy and also cost-effective, because the operator can replace the segment themselves keeping machine downtime to a minimum. Additionally, operating stock is also minimised as there is no need for transporting the roller body when recovering with a new bristle arrangement. The brush segments themselves require very little storage space.

Note: Special designs using alternative materials for the brush body such as wood or hardboard can be produced to suit any specific application.

Benefits Overview

- Simple and fast mounting by the operator
- Easy replacement of individual brush segments if they become worn
- Disposable system – the brush shaft can be reused
- Various brush diameters and working widths available
- Standard spindle hole diameters can be modified by inserting adapters
- Multiple segments can be mounted on a single shaft
- Teeth positively lock the segments to the shaft and the bodies are secured with an adjusting ring
- A variety of different fill materials can be used
- Different fill patterns (also with fields of bristles offset to each other)
- Three different fill densities with full cover
- Space-saving storage and favourable transport costs achieved through delivery of individual segments
- No separate packaging is required
- The MultiZack® body has high shape stability and temperature resistance due to the use of glass fibre reinforced plastic
- Homogeneous and closed fill surface without gaps forming between the individual segments



The Multi-Zack segments are positioned and secured on the shaft with the appropriate Multi-Zack adjusting rings. The toothing ensures the drive and the torque transmission.



A million uses

The modular design and simple assembly of the MultiZack® makes it suitable for use for an extremely wide range of different tasks. Here are just a few examples:

Cleaning, washing, polishing, deburring, peeling, oiling, moistening and dust removal of

Moulds, die plates, dies, foils, conveyor belts, sheets, foodstuffs, containers, wood

Transport, guiding, dividing, sorting, dosing of:

Foodstuffs, tablets, glass and small parts



MultiZack® brushes are suitable for cleaning, transporting and polishing fruit or vegetables.

Fill Material

A variety of different fill materials can be used.

Most suitable are synthetic monofilaments. The most commonly used fill materials are nylon (Novofil®) in various versions with and without abrasives as well as natural hair (e.g. horsehair) and pure plant fibres. Depending on the application, wire can also be used as fill material.

Customised Bore Size

Should a customised size for the axle hole diameter be required, the body segment can be fitted with a reducing insert.



Abrasive nylon bristles

with grit size 46-1.000 and the associated thread diameter of 1.5 to 0.25 mm

- Novofil-NHS, NHC, NHA

Natural hair

- Horsehair
- Goat hair

Plant fibres

- Mexico Fibre / Tampico

Synthetic bristles

in many colours, smooth and crimped

- Nylon (polyamide) PA-6/PA6.6/PA6.10/PA6.12
- Polypropylene PP
- Polyester

Wires

- Steel wire
- Stainless steel wire
- Phosphor bronze wire
- Brass wire
- Brass coated steel wire

Fill arrangements

There is a wide selection of fill arrangements to choose from. The fill materials can also be arranged in an offset pattern.



Fill arranged with fields offset to one another.



Fields of bristles with different coloured fill material, offset to one another.



Fill arranged in a V-shape with a rising spiral from the centre to the left and right.



Full fill



Fill arrangement in fields



Spiral fill running to the left



Spiral fill running to the right



Spiral fill running to the right and to the left

Fill density

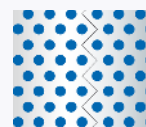
We can provide three fill densities for each body diameter as standard: Loose, medium and high density.



Loose density



Medium density



High density

Technical data

Designation	Outer D. max	Body D	Bore	Teeth	Rows	Fill density
MZ 31 06 81	231	31	20	6	12	loose
MZ 31 08 60	231	31	20	8	16	medum density
MZ 31 10 48	231	31	20	10	20	high density
MZ 45 08 88	245	45	25	8	16	loose
MZ 45 12 59	245	45	25	12	24	medum density
MZ 45 16 44	245	45	25	16	32	high density
MZ 57 10 89	257	57	35	10	20	loose
MZ 57 15 60	257	57	35	15	30	medum density
MZ 57 18 50	257	57	35	18	36	high density
MZ 65 12 85	265	65	40	12	24	loose
MZ 65 17 60	265	65	40	17	34	medum density
MZ 65 20 50	265	65	40	20	40	high density
MZ 86 12 112	286	86	60	12	24	loose
MZ 86 20 67	286	86	60	20	40	medum density
MZ 86 30 45	286	86	60	30	60	high density
MZ 100 14 112	300	100	75	14	28	loose
MZ 100 18 87	300	100	75	18	36	medum density
MZ 100 22 71	300	100	75	22	44	high density
MZ 125 18 110	325	125	100	18	36	loose
MZ 125 24 82	325	125	100	24	48	medum density
MZ 125 28 70	325	125	100	28	56	high density

Request an offer

If you wish to provide us with the parameters for your application, we would be more than happy to send you an offer for a MultiZack® brush.

Simply download our request form, fill it in and send it off.

<https://www.osborn.com/downloads/Osborn-Multizack-Form-EN.pdf>

Note: Are you not really sure which configuration is the best choice for your application? No problem. Our application engineers will be happy to advise you.

Terms & Conditions and Contact Addresses.

Please refer to our website for general terms and conditions and further information on ordering and dispatch.

Osborn GmbH

Ringstraße 10
35099 Burgwald
Germany
Tel.: +49 (0) 64515880
info@osborn.de

Osborn Unipol Lda

Rua de Paredelhas
4805-062 Brito-Guimarães
Portugal
Tel.: +351 (0) 253479550
osborn-unipol@osborn-unipol.pt

Osborn International AB

Huskvarnavägen 105
56123 Huskvarna
Sweden
Tel.: +46 (0) 36389200
info@osborn.se

Osborn Unipol SAS

24B avenue de la Demi-Lune
CS 80006
95735 Roissy CDG cedex
France
Tel.: +33 (0) 134450600
contact@osborn-unipol.fr

Osborn GmbH

Premium Polishing Compounds
Rudolf-Harbig-Weg 10
42781 Haan
Germany
Tel.: +49 (0) 212993070
polishing@osborn.de

Osborn International

R2001, Unit 2, Building No. 3
Yard No. 11, Shuangying Road
Chaoyang, 100012 Beijing
China
Tel.: +86 1084986167
cnsales@osborn.com

Osborn Lippert (India) Pvt Ltd

Plot nos E 65 & 66, MIDC Waluj
Chhatrapati Shambhajnagar -
431 136
India
Tel.: +91 2402556538
sales@osborn-lippert.co.in

Osborn Mexico

Emilio Cárdenas No. 211
Centro Industrial Tlalnepantla
Tlalnepantla Edo, México, 54030
Mexico
Tel.: +52 55556559555

Osborn Unipol (UK) Limited

Newhouse Farm Industrial Estate
Chepstow NP16 6UD
United Kingdom
Tel.: +44 1291643200
sales@osborn.co.uk

Osborn International SRL

Bd. Bucovina, Nr. 151
725300 Gura Humorului,
jud. Suceava
Romania
Tel.: +40 (0) 230234212
sales@osborn.ro

Osborn - Unipol, S.L.

C/ Ronda Norte, 320
(Polígono Industrial) - Apartado 169
46470 Catarroja (Valencia)
Spain
Tel.: +34 (0) 961325876
ventas@osborn.es

Osborn LLC- Richmond, IN - USA

2350 Salisbury Road North
47374 Richmond
United States
Tel.: +1 800 7203358
marketsupport@osborn.com

Osborn Singapore Pte Ltd

#24-01, 2 Venture Drive,
Vision Exchange
608526 Singapore
Singapore
Tel.: +65 68630318
sales@osborn.com.sg

Osborn LLC - Hamilton, OH - USA

Premium Polishing Compounds
3440 Symmes Road
Hamilton, OH 45015
United States
Tel.: +1 800 5378449
polishing@osborn.com

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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