



## Innovative Solutions for Woodworking Technology

Brush & Abrasive Rolls



Tools & Compounds  
for High Gloss Polishing



Tools & Equipment  
for Power Tools and  
Manual Applications



## Mission statement



Our mission is to be the world's most dynamic surface finishing company, creating solutions to improve our customers' products, increase our customers' productivity and provide safer and greener environments worldwide.

Particularly in the woodworking field our ultimate target is to offer the most complete and technology leading range of cost effective solutions in close cooperation with our customers whether they are OEM's or manu-

facturing/processing companies. And thus, create sustainable value to our customers, employees and shareholders.

We work relentlessly to be highly responsive and deliver best-in-class service within a framework of integrity, commitment, respect and partnership with our customers. At OSBORN Unipol we deliver these values by being the true global surface finishing company and remaining close to our business partners.

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Brazil • China • Denmark • France • Germany • Great Britain • India • Mexico • Portugal • Romania • Spain • Sweden • USA



**OSBORN International GmbH**  
Ringstraße 10  
35099 Burgwald - Germany  
Phone: ++49 (64 51) 5 88-0  
Fax: ++49 (64 51) 5 88-206  
eMail: info@osborn.de



**OSBORN Unipol S.A.**  
Parc d'Activités de la Fringale  
27100 Val de Reuil - France  
Phone: ++33 (2) 32 09 50 50  
Fax: ++33 (2) 32 25 06 92  
eMail: contact@lippert-unipol.fr



**OSBORN International S.R.L.**  
Bd. Bucovina F.N.  
725300 Gura Humorului - Romania  
Phone: ++40 (230) 234 212  
Fax: ++40 (230) 531 785  
eMail: rosales@osborn.com



**Lippert Unipol GmbH**  
Eschelbronner Straße 35  
74925 Efenbach - Germany  
Phone: ++49 (72 36) 91 24-0  
Fax: ++49 (72 36) 91 24-91  
eMail: sales.lippert@lippert-unipol.de



**OSBORN International AB**  
Huskvarnavägen 105  
S-56123 Huskvarna - Sweden  
Phone: ++46 (36) 38 92 00  
Fax: ++46 (36) 14 43 49  
eMail: info@osborn.se



**OSBORN International Ltda.**  
Rua Lemos Torres, 150, Jardim Galiardi  
09890-070 Sao Bernado do Campo - Brazil  
Phone: ++55 (11) 43 91 65 59  
Fax: ++55 (11) 43 91 65 50  
eMail: osborn@osborn.com.br



**Lippert Unipol GmbH**  
Rudolf-Harbig-Weg 10  
42781 Haan - Germany  
Phone: ++49 (21 29) 93 07-0  
Fax: ++49 (21 29) 93 07-23  
eMail: sales.lippert@lippert-unipol.de



**OSBORN International A/S**  
Nr. Bjertvej 103-107  
6000 Kolding - Denmark  
Phone: ++45 (76) 32 76 32  
Fax: ++45 (76) 32 76 00  
eMail: info@osborn.dk



**OSBORN Lippert India Pvt.Ltd.**  
Plot No. E-66, MIDC Waluj  
Aurangabad - 431 136 - India  
Phone: ++91 (2 40) 25 56 53 8  
Fax: ++91 (2 40) 25 52 53 0  
eMail: sales@osborn-lippert.co.in



**OSBORN Unipol Ltd.**  
Lower Church Street  
Chepstow, Monmouthshire NP16 5XT - UK  
Phone: ++44 (12 91) 63 40 00  
Fax: ++44 (12 91) 63 40 98  
eMail: sales@osborn-unipol.co.uk



**OSBORN Unipol S.L.**  
Ronda Norte, 320  
Poligono Industrial  
46470 Catarroja (Valencia) - Spain  
Phone: ++34 (961) 325 876  
Fax: ++34 (961) 324 602  
eMail: ventas@osborn-unipol.es



**OSBORN International China**  
Rm. 505, Tower H, Huiyuan Int. Apartment  
No. 8 Beichen East Road, Chaoyang District  
Beijing 100101 - PR China  
Phone: ++86 (10) 84 98 81 91  
Fax: ++86 (10) 64 99 18 63  
eMail: cnsales@osborn.com



**OSBORN Unipol S.A.**  
Parc d'Activités Les Doucettes  
23, Avenue des Morillons  
95140 Garges Les Gonesse - France  
Phone: ++33 (01) 34 45 06 00  
Fax: ++33 (01) 39 93 67 11  
eMail: info@osborn.fr



**OSBORN Unipol Lda.**  
Lugar da Cruz-Brito  
4800 Guimarães - Portugal  
Phone: ++351 (253) 47 95 50  
Fax: ++351 (253) 57 66 29  
eMail: sales@osborn-unipol.pt



**OSBORN International**  
5401 Hamilton Avenue  
Cleveland, OH 44114-3997 - USA  
Phone: ++1 (800) 720 33 58  
Fax: ++1 (216) 361 19 13  
eMail: brushes@osborn.com

Further contact details: [www.osborn-unipol.com](http://www.osborn-unipol.com)

Organizations throughout the world trust and depend on the quality and efficiency of OSBORN-Unipol solutions. In 11 locations worldwide we are manufacturing brushes, abrasives, polishing tools and compounds of the highest quality for professional use in the industrial, trade and private sectors.

OSBORN-Unipol products are sold in more than 90 countries to industry, engineers, wholesalers, retailers and end users in highly diverse markets. The breadth of applications for our products is extensive in fields such as aerospace, automotive, food processing, primary metals, oil and gas, textile, wood processing and transportation industries etc. to name but a few.

Our group manufactures over 10,000 standard products in addition to the widest variety of engineered custom solutions for customers around the world. Whether in Western or Eastern Europe, North America, South America, Middle East or Asia, every company within our group, together with our network of

field sales representatives, technicians, agencies and distributors throughout the world, offers high-quality technical products to the market as well as up-to-date solutions to industry problems.

Our philosophy is to leverage the technical competence and advantages of our specialized production sites while at the same time being accessible to serve all local customers with the appropriate solutions delivered on time and with the necessary local support. We offer all the advantages and strengths of a large multinational enterprise together with those of a smaller business with quick reactions, close to customers and highly responsive.

We are determined to provide ongoing satisfaction, and we work towards this goal with commitment and enthusiasm. Building upon past success we look forward to fresh challenges ahead.



Surface preparation is an important step in the processing of wood in all its forms - plain wood, plywood, chipboard or MDF - as it strongly conditions the visual finishing quality of finished products. It can also lead to a substantial reduction in coating or stain consumption. With a wide range of construction types and a strong know-how in fill material types,

OSBORN-Unipol offers innovative and cost-efficient tailor-made solutions to fit your surface preparation requirement and industrial constraints.

Our solutions can be adapted to most woodworking brushing machine brands.

Application category	Description of application	OSBORN-Unipol product range
Fine sanding	Removal of broken or loose wood fibres after belt sanding	Abrasive brush rolls, Lipprite® abrasive rolls
Deburring and edge rounding	Removal of burrs on the sharp edges and slight rounding of edges to avoid damage	Abrasive brush rolls
Denibbing	Smoothing of wood surface between staining or base coating layers	Abrasive brush rolls, Lipprite® abrasive rolls
Fine sanding and denibbing of profiles	Processing of profiled elements such as veneered MDF mouldings	Lipprite® and Lipprox® abrasive wheels
Structuring (antique finishing)	Revealing the natural wood structure by marginally abrading the softer areas and opening the pores	Metallic wire brush rolls Abrasive brush rolls
Plastic wood structuring	Creating a natural wood appearance on plastic wood extrusions for construction	Metallic wire brush rolls (high density)

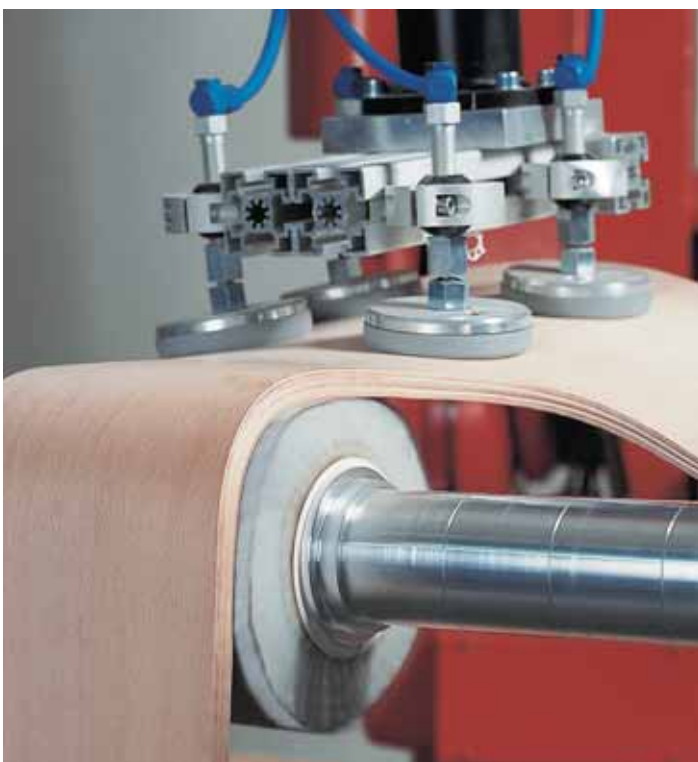
Fine sanding, deburring and edge rounding

After planing and milling, the wood surface is usually prepared with a belt sander for subsequent coating. Even if very fine abrasive grits are used, the belt sander cannot avoid damaging the top layer or even pressing fibres into the wood surface. These damaged or loose fibres will then reappear on the surface after coating as a result of tension arising during

the drying process.

Fine sanding with **OSBORN-Unipol Novofil abrasive nylon brushes** after belt sanding will ensure the removal of the finest wood fibres and smoothen the surface.

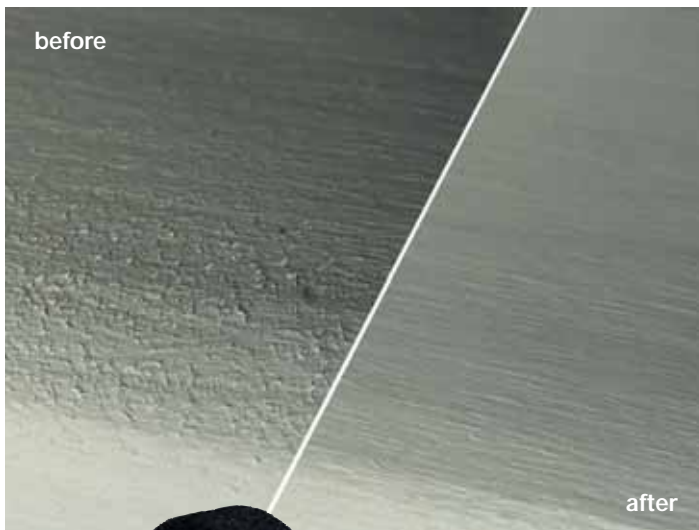
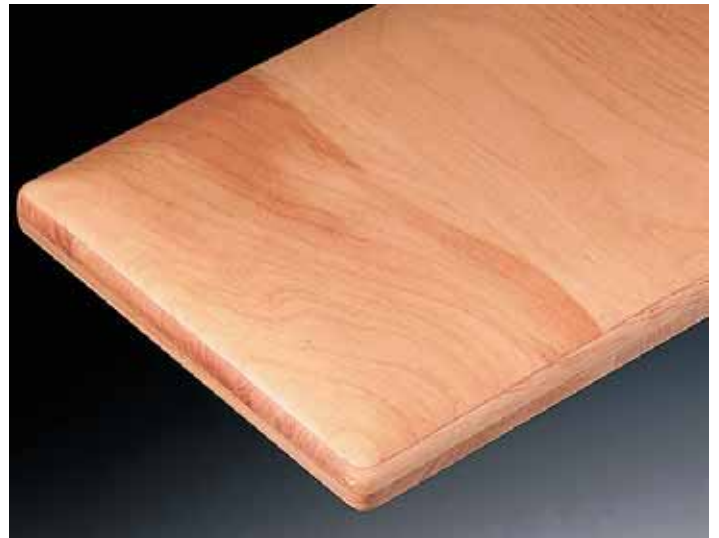
Sharp edges will be additionally deburred and slightly rounded during the process.



The result of this automated process greatly improves the quality of surface preparation prior to staining or coating leading to the reduction of the quantity of primer required and therefore reducing costs.

Thanks to the flexibility of abrasive nylon filament, the brush will adapt to all contours and shapes ensuring a homogeneous result on the entire surface.

Where the efficiency of the sanding paper decreases over the service life, the aggressiveness of the Novofil abrasive nylon filaments remains constant or slightly increases over the life time of the brush. Indeed, with the wearing of the nylon based filaments, new embedded abrasive particles are constantly revealed at their tips. On totally flat surfaces, such as panels, the **Lipprite® abrasive rolls** will provide a very intensive brushing and achieve a smooth and homogeneous surface after belt sanding.



#### Denibbing

After a stain or base coat is applied, wood fibres or “nibs” are raised which, together with possible excess coating, make the surface feel rough.

In order to achieve the required smooth surface for the subsequent treatment, a perfect fine sanding of the priming is necessary to remove the raised fibres and the excess coating.

Once again, the **OSBORN-Unipol Novofil® abrasive nylon brushes** give a long-lasting perfect solution with accurate and constant aggressiveness.

For some coating types, a rougher surface structure with microscopic scratches is required, this can be achieved using a more aggressive brush and higher RPM.



#### Fine sanding and denibbing of profiles

For surface preparation of profiled elements, we recommend the **Lipprox® and Lipprite® wheel range**. Their non-woven, flexible, abrasive structure can easily be dressed to the exact form of the moulding and thus ensure a homogeneous finish. **Lipprox®** convolute wheels: for fine sanding of MDF or plain wood moulding after milling and after veneering.

**Lipprite®** flap wheels: for denibbing of veneered profiles.



## Structuring / antique finishing

For a wide range of products such as floor, decking, doors or furniture elements, manufacturers are seeking to emphasize the natural grain of plain wood in order to obtain an antique or rustic finish.

OSBORN-Unipol offers a comprehensive range of aggressive brush roll solutions to achieve a unique finish for the different wood hardnesses.

The filaments abrade the softer areas more than the harder ones, revealing the grain of the wood and leaving a surface in relief that can be then stained or filled for ceruse finish. The depth of the structure can be controlled with the brush speed and line feed.

For hard wood species, metallic bristle brush rolls are recommended. Carbon steel wire and brass coated steel cord wire give, in this case, an excellent finish, but for very acid wood species, the use of stainless steel wire is a must to avoid undesired dark stains on the wood surface that can be caused by the corrosion of steel wires.

After structuring with metal brush, a subsequent operation with a Novofil® abrasive nylon brush is recommended to remove the raised and broken wood fibres and to finish opening the pores.

For softer wood, great results can be achieved in just one operation with aggressive Novofil® brush rolls.

The key to success is to define the accurate combination of filament or wire, brush density and aggressiveness, as well as, process parameters to match each specific structure result required.



Preliminary tests can be performed in our laboratory and our technicians can further assist you during the set-up of the process.

The high-quality Novofil® filaments and metallic wire used by OSBORN-Unipol guarantee the highest brush lifetime.



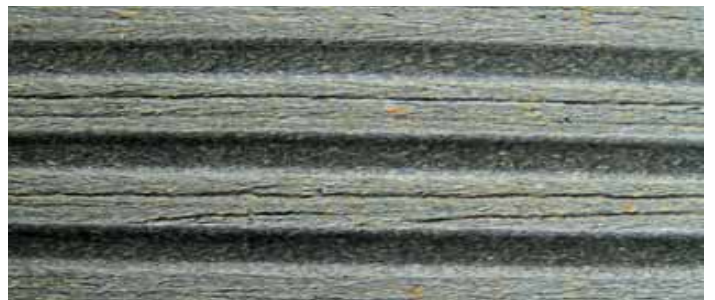
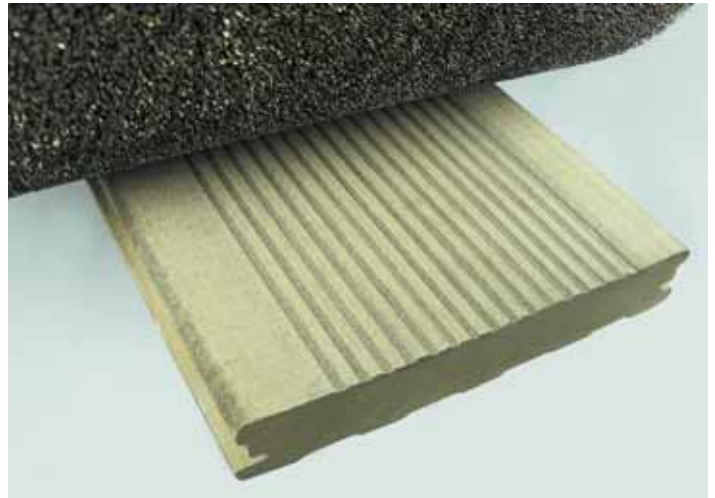
### Plastic wood structuring

Composite material extrusions such as plastic wood made of natural fibres and synthetic material, are used more and more for decking, fences and floor construction.

The challenge for the manufacturer is to recreate the structure of plain wood on the surface of the extrusion both for decorative and security requirements.

This particular random and non-slip pattern can be achieved with OSBORN-Unipol densely filled wire brush rolls.

For optimum and constant results, OSBORN-Unipol ensures a continuous high density as well as perfect trimming and grinding of the brush.



### Brush roll constructions

Brush roll form is the most common shape for the surface preparation of large panels and especially suitable when the finishing must follow or recreate the specific fibre direction of the wood.

Depending on the machine configuration and specific applications we can provide different brush constructions:

#### - Factory assembly constructions

- Complete spiral brush with shaft
- Spiral brush refilled on reusable tube or on customer shaft

#### - Customer assembly constructions

- Spiral brush on one-way tube
- Internal welded brush modules
- Loose spiral brush
- Section construction pressed on tube for very high density short roller brushes



All our state-of-the-art brushes are carefully trimmed, ground and balanced (except for the loose spiral and brush modules).



Application category	Description of application	OSBORN-Unipol product range
Cleaning before coating or staining	Removal of the finest loose fibres and dust from the wood pores	Tampico brush rolls
Dusting of wooden elements	Removal of dust at different stages of the process	Horse hair brush rolls Horse hair lag brushes

### Cleaning before coating and staining

Before coating or staining, the cleaning operation is the last important preparation step to ensure the quality of the result and to reduce the consumption of treatment.

The OSBORN-Unipol dense brush rolls with natural Tampico fibres in a conveyor type system will ensure a continuous removal of the dust and finest loose fibres from the sanding, fine sanding or structuring operations. The slight natural abrasiveness of the Tampico fibres will moreover provide the finest finishing of the surface.



### Dusting

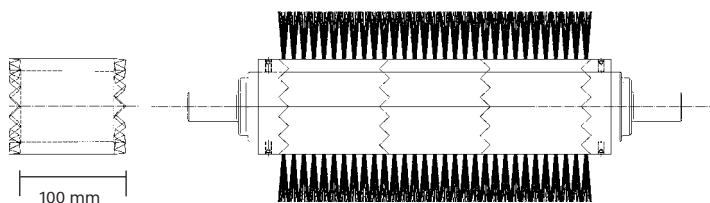
For fine dusting operations at different steps of the process, OSBORN-Unipol brush rolls with natural horse hair will give excellent results.

To easily remove the bulk of the dust or wooden chip from wood panels or elements, OSBORN-Unipol lag brushes or strip brushes with nylon filament or horse hair can be placed at different steps of the conveyor systems.

### Punched construction and Multi-Zack modular system

The filaments are inserted in bundles into a plastic body which offers a great range of design, pattern form and density possibilities.

Punched brush rolls can be provided in one piece, with or without shaft, or in a convenient Multi-Zack modular system.



The toothed design of Multi-Zack bodies ensure both a secure drive and a continuous density between the modules. The modules are pressed together and fixed to the shaft by two end-collars.

Each core diameter is available in 3 different pattern densities.

Body Ø mm	Standard bore Ø	Standard brush Ø mm	Density - No. of teeth		
			Low	Medium	High
31	20	50-60-70-80-90-100-110-120 140-160-180-200-230	6	8	12
45	25	60-70-80-90-100-110-120 140-160-180-200-230	8	12	16
57	35	70-80-90-100-110-120 140-160-180-200-230-250	10	15	18
65	40	80-90-100-110-120 140-160-180-200-230-250	12	17	20
86	60	100-110-120-140-160-180 200-230-250-280	12	20	30
100	75	120-140-160-180-200 230-250-280-300	14	18	22
125	100	140-160-180-200-230 250-280-300-325	18	24	28



- Bore diameter can be reduced by means of an adapter
- Other brush diameters are available on request

In finishing or gluing lines, OSBORN offers a range of brush solutions to apply, level or remove excess liquids on wood elements.

The brush flexibility and the specific properties of each fill material allow automation of these operations, optimising the finish results and the liquid consumption.

Application category	Description of application	OSBORN-Unipol product range
<b>Treatment levelling</b>	Helping the penetration of liquid into the wood pores to obtain a uniform finish after spraying	Punched natural fibre brush rolls Punched Novofil® NM brush rolls
<b>Treatment wiping</b>	Smoothing out or removing the surplus liquid after treatment or levelling operation	Punched animal hair brush rolls Punched soft Novofil® NM brush rolls Phosphor bronze brush rolls
<b>Application of glue</b>	Uniform application of glue in automated process	Punched Novofil® PR brush rolls Novofil® PR lag brushes

### Treatment levelling and wiping

After spraying in the treatment or coating lines, OSBORN-Unipol brush rolls are used to rub the liquid into the wood pores and smooth it out.

The main recommended fill materials for these operations are nylon, fibres, horse hair, chungking and phosphor bronze fine wire.

The choice of the fill material, density and trim length will depend on the nature of coating and expected levelling or wiping effect.



### Gluing

Thanks to the specific non-stick properties of their fill material, OSBORN-Unipol Novofil PR brushes offer excellent results in automated glue application on complex profiles. Small Novofil PR flow-thru lag brushes are recommended for precise glue application in continuous conveyor lines.

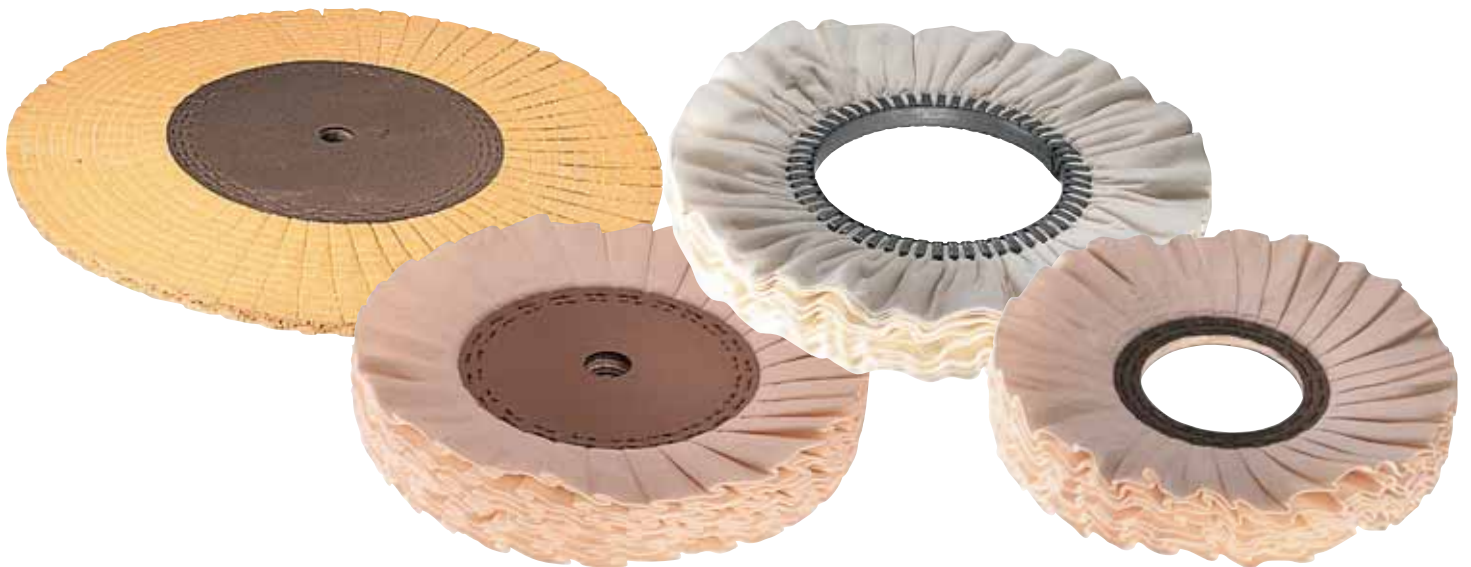


# 2.4

## Industrial wood processing High gloss polishing

OSBORN-Unipol offers ideal solutions for the high gloss polishing of lacquer. A high quality surface finish is defined by a uniform background and a shiny gloss. This result is achieved by applying the appropriate polishing process after fine sanding and by the subsequent finishing operation. From an economic point of view, the time factor must always be taken into consideration.

In our extensive product range, we have the appropriate buffs, solid and liquid compounds, polishing and spraying systems specially designed for this application. Thanks to our close connection to our customer, these products and the related processes are constantly evolving, allowing us to make proposals based on the latest state-of-the-art technology in lacquer polishing.



### Furniture components

Surfaces are generally polished on a rotary table machine; however alternative transfer lines may be used. First, the lacquered surface previously fine-sanded with grits 800 to 1200, has to be polished. The tool recommended for this operation is a WR-buff together with the appropriate polishing compound chosen according to the type of lacquer used by the customer. The polishing compound is applied with a brush or with a roll directly on the part.

In the second step, the high gloss finish of the surface is achieved using sponge pads. The polish should be applied sparingly to the part and then rubbed in with the pads.

The edges can be processed manually or by using a special edge polishing machine. For this operation, the best results are achieved with a solid compound again selected according to the type of lacquer.



Application category	Lacquer type	Machine type	OSBORN-Unipol product range*
Surface polishing after fine sanding	Polyester lacquer	Rotary table or transfer line	WR buffs MO5; Compound Langsol® 6910 or Unipol® TP100D
	PUR and water lacquer		WR buffs MO5; Compound Unipol® TP100D or Langsol® 7500-6
	UV hardened lacquer		WR buffs MO5; Compound Langsol® 7500-6 or Unipol® VS200
High gloss finishing after polishing	Polyester lacquer	Rotary table or transfer line	Sponge pad, Langsol® Nano Polish or Langsol® Complete
	PUR and water lacquer		Sponge pad, Langsol® Complete
	UV hardened lacquer		Sponge pad, Langsol® Nano Polish or Langsol® Complete
Polishing of edges	Polyester lacquer	Edge polishing machine	WR buffs 101A; Solid compound Langsol® 9213 or Langsol® 9216
	PUR and water lacquer		WR buffs 101A; Solid compound Langsol® 9210 or Unipol® GW71
	UV hardened lacquer		WR buffs 101A; Solid compound Langsol® 9210 or Unipol® GW71

\*Compounds in order of increasing abrasiveness



#### Car interior

This application is generally implemented on reversing machines. The previous fine sanding is usually done with grit size 280 or 400. OSBORN-Unipol folded EK rings made from soft material are used as a polishing tool in combination with a polishing emulsion for removing the sanding pattern. The dosage of emulsion is controlled via high pressure guns and is dependent on the part to be polished as well as on the selected tool.

The OSBORN-Unipol product range, moreover, includes the equipment needed for liquid application such as spray guns, pressure tanks, diaphragm pumps or containers. If the parts are being manually processed to a high gloss, then solid paste is used first. Afterwards the surface will be finished with liquid polish to finally achieve a deep, brilliant, high gloss. Increasingly, robot processing has moved into this application. Tools such as maxi LM rings in a diameter range of about 960mm are used for polishing as well as for high-gloss finishing. For each single process step, an especially adapted emulsion is used.



Application category	Lacquer type	Machine type	OSBORN-Unipol product range*
Surface polishing after fine sanding	Polyester lacquer	Reversing or robot system	Unipol® TP100D emulsion or Unipol® S1
	PUR and water lacquer		Unipol® TP100D emulsion or Langsol® 7500/6 or 7500/7
	UV hardened lacquer		Langsol® 7500/6 emulsion or Langsol® 7500/7
High gloss finishing after polishing	Polyester lacquer	Robot system	Langsol® Complete, Langsol® 6910 emulsion, Unipol® TP100
	PUR and water lacquer		Langsol® Complete, Langsol® 6910 emulsion, Unipol® TP100
	UV hardened lacquer		Langsol® Complete, Unipol® TP100D emulsion, Langsol® 7500/6
Polishing of edges	Polyester lacquer	Manual equipm. or edge polishing machine	Langsol® 9213 compound, Langsol® 9216 or Unipol® G65 red
	PUR and water lacquer		Langsol® Compl., Langsol® 9216 comp. or 9210, Unipol® GW71
	UV hardened lacquer		Langsol® Complete, Langsol® 9210 compound

\*Compounds in order of increasing abrasiveness

Application category	Description of application	OSBORN-Unipol product range
Seal elements	Seal elements to be integrated in construction and furniture finished products.	Masterstrip brushes, EZ-Flex® strip brushes
Process sealing and protection	Protecting or sealing of process modules from dust, protections, spraying...	Formed strip, Masterstrip and EZ-Flex® strip brushes
Process elements cleaning	Cleaning of process modules such as MDF line, conveyors, chains...	Punched brush rolls Spider brush rolls
Storing, guiding and transporting	Transport, guiding or storing of wooden elements with delicate surface with maximum care and no noise.	Nylon transport brush rolls, Nylon lag brushes
High load conveying	Conveying, handling and guiding of heavy equipment.	Load Runners® Heavy load rolls and guiding systems

#### Brush seals and flexible furniture elements

OSBORN PRO brush seals save energy by an optimum sealing for all kinds of doors, gates and windows. Moreover they ensure protection against cold, draught, pest, dust and noise.

A wide product range is available ex stock in trim length of 15, 25, 35 and 45mm with or without aluminium extrusion.

EZ-Flex® is an innovative OSBORN made strip brush which, due to its flexibility and adaptability in design, offers plenty of design and application options with cable duct elements for furniture or constructive components.



Please find further details on our OSBORN PRO and EZ-Flex® product range on page 20.

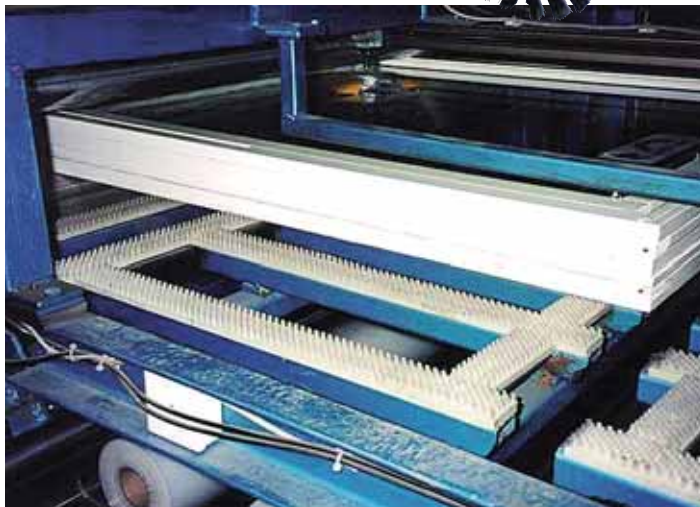
### Process elements cleaning

OSBORN punched brush rolls offer flexible solutions for the dusting and cleaning of conveyors, chains or other machine elements. The punched construction allows infinite density pattern configurations: plain, spiral or chevron form.

For heavy duty cleaning of MDF and OSB conveyors, for example, OSBORN-Unipol recommends the spider brush roll construction with convenient exchangeable strip brush elements.



To fit the different aggressiveness requirements of cleaning, our brushes are available with a wide range of fill materials including nylon, horse hair, natural fibres, steel, stainless steel or phosphor bronze wire.



### Guiding and transporting

OSBORN brush transport rolls are a great alternative to steel, polyurethane or rubber rollers for scratch-free conveying of elements with delicate surfaces. The soft but short trimmed and high quality nylon filaments easily support the weight of big panels or elements, but do not retain dirt particles on their surface, thus avoiding any risk of scratching. They additionally provide a significant noise reduction compared to solid rollers. Different configurations are possible: continuous density rollers in one piece or modular system, or short elements mounted with spacers.

With the same principle, wood panels can slide on OSBORN nylon lag brush modules that can be installed on conveyors, machines or racks to support, protect or guide.



### High load conveying with Load Runners®

The name Load Runners® stands for five decades of experience in manufacturing of idler rollers and guidance systems for precision handling of heavy loads in tough environments. Besides an extensive standard program of over 300 articles available from stock or on short notice up to a diameter of 250mm, special sized rollers can also be tailor-made in small quantities for special requirements.

Our complete Load Runners® range can be found in our catalogue, "Load Runners® - Idler-Rollers and Load Rails for high-capacity load handling"



# 3.1

## Power tool and manual applications

### Tools for portable brushing machines and spindle moulders

OSBORN-Unipol offers a wide range of woodworking rolls designed for convenient mounting on special brushing or spindle moulders.

The aggressiveness of the operation and the depth of structuring can easily be adjusted with the speed and the time of operation.

Application category	Description of application	OSBORN-Unipol product range
Structuring of hard wood	The first operation abrades and opens the softer wood fibres. The second operation will remove the broken or loose fibres and finish the rusticing process.	Rusticord and rustifil brush rolls
Structuring of soft wood	Rustifil abrasive nylon can abrade the softer wood fibres and achieve a nice rusticing effect in one operation.	Rustifil brush rolls
Fine sanding	Removal of the broken or loose fibres and edge smoothing after belt sanding.	Rustifil brush rolls
Dusting before staining	Removal of dust and very fine wood fibres to leave a clean optimum surface for staining.	Fibre and phosphor bronze brush rolls; Sisal cord roller
Denibbing	Smoothing of wood surface between stain or base coating layers.	Rustifil brush rolls
Levelling and spreading of stainer or wax	The combination of the natural fibres and very fine and soft phosphor bronze wire will help spread the oil, stainer or wax into the wood pores.	Fibre and phosphor bronze wire brush rolls

Tools for portable brushing machines and spindle moulders



Dimensions D mm	A mm	Bore B mm	Rusticord Brass coat. steel w. Item No.	Rustifil Novofil NN-S 80 Item No.	Fibre + Phosphor bronze wire Item No.	max. min <sup>-1</sup>	Pack. Qty.
<b>For spindle moulders</b>							
150	120	30	2102-713 044	2152-713 915	3242-713 904	4.000	1
150	140	30	0362-713 044	2552-713 915	3142-713 904	4.000	1
<b>For portable brushing machines (Festo type)</b>							
100	100	16	3142-703 032			4.000	1
150	80	16		0142-703 914		4.000	1
150	80	16/30		1632-703 914		4.000	1
150	85	16	0142-703 044	3242-703 915		4.000	1
150	85	16/30	1632-703 044	1632-703 915		4.000	1
<b>Drive arbor for M14 spindle thread</b>							
M16/M14	90	for brush width 80 or 85 mm and bore D16		0283-000 105			1
M16/M14	105	for brush width 100 mm and bore D16		0183-000 105			1

We can provide other brush dimensions and bore diameters to fit the main brushing machines available on the market. Other types of tools such as sisal cord and non-woven abrasive rolls or polishing buffs are also available. Please contact us for more information on our possibilities.



Other dimensions and fill materials are available on request.




OSBORN-Unipol PROfi® line is a range of professional tools and compounds for the satinising and polishing of stainless steel, non-ferrous metals, acrylic glass and lacquered surfaces. Combined with the specific solid pastes developed by our compound division Unipol, the PROfi® buffs will achieve great


results for the polishing and high gloss finishing of lacquered or varnished wood.

Tools can be used on drilling machines, flexible shafts, wood lathes, bench grinders or brushing machines. Drive arbors and mandrills can be supplied to mount single or multiple tools.


Application category	Description of application	OSBORN-Unipol product range
Polishing after fine sanding	Polishing of lacquered or varnished wood surfaces (Polyester lacquers and varnishes). For surface preparation, sandpaper grit 1500-2500 is recommended.	PROfi Notiflex® 914, PROfi® molton buffs, with polishing compound GW71
Polishing after fine sanding	On lacquered or varnished wood surfaces (Polyurethane, water-base or cellulose lacquers and varnishes). For surface preparation, sandpaper grit 1500-2500 is recommended.	PROfi Notiflex® 914, PROfi® molton buffs, with polishing compound 9210
Finishing after polishing	High gloss finishing of lacquered or varnished wood surfaces (all types of lacquers and varnishes).	PROfi Notiflex® 925, PROfi® molton buffs, with polishing compound 5796




**EKK buffs**  
Notiflex® is a patented non-woven, fleece material, with superior polishing performance and lifetime compared to standard cotton and molton buffs. Select the correct tool diameter according to your machine RPM's in order to work with an optimal 20-30 m/s cutting speed.



Dimensions D Ø mm	Bore mm	Notiflex® 914 Hard fleece, 8 plies Item No.	Notiflex® 925 Soft fleeces, 10 plies Item No.	max. min <sup>-1</sup>	Pack. Qty.
<b>EKK buffs</b>					
100	10	8203-100 914	8203-100 925	4.000	2
150	14	8203-150 914	8203-150 925	3.000	2
200	14	8203-200 914	8203-200 925	3.000	2
<b>Drive arbor</b>					
D6	For drilling machines or flexible shafts		8103-800 224		1



**Polishing set for metals and acrylic glass**  
- 2 pcs. of each: Sisal cloth / Notiflex® 914 / Notiflex® 925  
- Polishing compounds white / blue / brown  
- 1 drive arbor



Dimensions D Ø mm	Item No.	Pack. Qty.
Polishing set	8103-600 010	1

Other dimensions and fill materials are available on request.

# 3.3

## Power tool and manual application

### Tools for angle sanders with variable speed

This range of brushes for wood maintenance, refurbishing and structuring are designed with M14 thread for mounting on various speed angle sanders with maximum speed of 2.500 RPM. These abrasive nylon disc brushes are recommended for paint or stain removal, cleaning, structuring, fine sanding and denibbing.

The disc brushes are convenient to work on large surfaces. Operations such as structuring and fine sanding should be carried out with the wheel brushes following the direction of the fibre.

**Disc brushes for angle sanders - variable speed**



Dimensions D mm	Thread	Novofil NN-S 46 Item No.	Novofil NN-S 60 Item No.	Novofil NN-S 80 Item No.	Novofil NN-S 120 Item No.	Fibre Item No.	max. min <sup>-1</sup>	Pack. Qty.
130	M14	9301-614 916	9311-614 916	9321-614 916	9931-614 916	3101-614 946	2.500	1

**Wheel brushes for angle sanders - variable speed**



Dimensions D mm	Thread	Novofil NN-S 46 Item No.	Novofil NN-S 60 Item No.	Novofil NN-S 80 Item No.	Novofil NN-S 120 Item No.	Fibre Item No.	max. min <sup>-1</sup>	Pack. Qty.
140	M14		5411-401 913	5401-401 913	2941-401 915		2.500	1


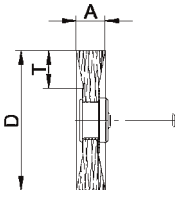
**Cup brush for angle sanders - variable speed**




Dimensions D Ø mm	T mm	Thread	Novofil NN-S 80 Item No.	Novofil NN-S 120 Item No.	Novofil NN-S 180 Item No.	max. min <sup>-1</sup>	Pack. Qty.
100	25	M14x2,0	6402-608 914	6412-608 914	1802-608 914	8.500	1

Other threads, dimensions and fill materials are available on request.



OSBORN Unipol offers a wide range of brushes with a 6 or 8 mm shaft which are easy to use on any power drill


**Structuring brush, with 8 mm shaft.** This densely filled cordwire brush is ideal for structuring of hard-to-reach and irregular shaped surfaces. It is therefore the perfect complement to the structuring brush rolls of brushing machines.



Dimensions			Rusticord 0,25 mm Item No.	max. min <sup>-1</sup>	Pack. Qty.
D mm	A	T			
80	30	25	0908-507 061	4.000	1

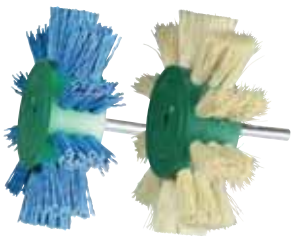
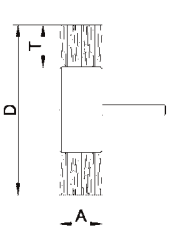



**Coated and mix coated/non-woven abrasive flap wheel, with 6 mm shaft.** Ideal for sanding, fine sanding and denibbing of flat, round and irregular shaped surfaces. They are robustly built and balanced to allow mounting on high-speed power tools.




Dimensions		Aluminium Oxide Grit 60 Item No.	Aluminium Oxide Grit 80 Item No.	Aluminium Oxide Grit 120 Item No.	Aluminium Oxide Grit 240 Item No.	max. min <sup>-1</sup>	Pack. Qty.
D mm	A						
<b>Coated abrasive flap wheel</b>							
40	15	0063-004 015	0083-004 015	0123-004 015	0243-004 015	17.000	10
50	20	0063-005 020	0083-005 020	0123-005 020	0243-005 020	14.000	10
60	30	0063-006 030	0083-006 030	0123-006 030	0243-006 030	11.000	10
<b>Mix coated/non-woven abrasive finishing wheel</b>							
60	30		0083-406 030	0153-406 030*	0243-406 030	7.500	10


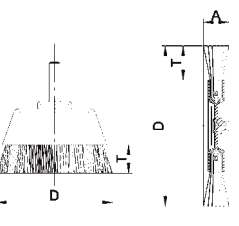
\* Grit 150


**Flap wheel brush, with 6 mm shaft.** This brush range is ideally suited for laquer removal, structuring, fine sanding, cleaning or denibbing. The fibre brushes are recommended for dusting and polishing operations. The minimal weight of the plastic body makes the brushes ideal to use on power drills.



Dimensions			Brass coated 0,30 mm Item No.	Grittyflex Red, grit 80 Item No.	Grittyflex Blue, grit 180 Item No.	Fibre Item No.	max. min <sup>-1</sup>	Pack. Qty.
D mm	A	T						
100	23	25	0004-401 052	0001-401 912	0011-401 912	0004-401 942	3.500	5

**Grittyflex wheel and cup brush, with 6 mm shaft.** The fill material of these brushes adapts itself ideally to the profile of the work piece without damaging the surface for lacquer removal, cleaning, structuring and fine sanding.



Dimensions		Grittyflex Red grit 60 Item No.	Grittyflex Blue, grit 180 Item No.	max. min <sup>-1</sup>	Pack. Qty.
D mm	A				
<b>Wheel brushes</b>					
75	16	0802-600 491	0182-600 491	4.500	10
100	23	0802-600 591	0182-600 591	4.500	10
<b>Cup brushes</b>					
50	17	0802-600 891	0182-600 891	4.500	10
75	23	0802-600 991	0182-600 991	4.500	10


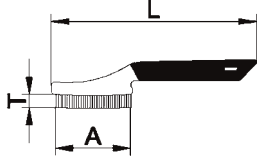
Other dimensions and fill materials are available on request.

# 3.5

## Power tool and manual applications Manual brushes

OSBORN-Unipol offers a professional range of brushes for manual woodworking, indispensable preparation finishing, rework and antique refurbishing jobs. A moderate pressure on


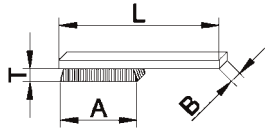
the manual brushes is sufficient to obtain the best finishing results and will optimize service life.

**Hand scratch brushes, with nonskid handle**

The stainless steel wire brushes are recommended for heavy paint removal and structuring, while the softer brass wire brushes will remove lacquer or glue, clean and achieve soft structuring without scratches.

Dimensions A T L mm			Rows	Stainless steel wire Straight 0,35 mm Item No.	Brass wire Crimped 0,20 mm Item No.	Pack. Qty.
110	2	270	5	0001-432 615	0001-432 625	5

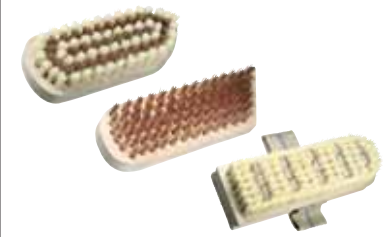
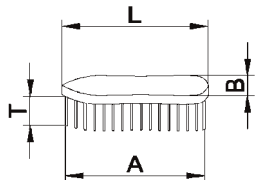



**Plater brushes and horse hair brush**

Brass wire brush: Recommended for cleaning, structuring and removing lacquer and glue.

Horse hair brush: Very soft brush for cleaning, dusting and polishing waxed surfaces.

Dimensions A T L B mm				Rows	Brass coated steel wire Crimped 0,15 mm Item No.	Horse hair Item No.	Pack. Qty.
33	15	180	15	3x5	0008-432 573		24
105	18	220	15	4	0003-165 584		24
118	25	225	38	4		4004-152 954	12


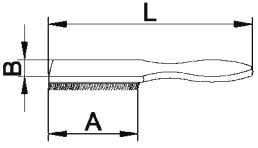



**Staining brushes**

The fibre and phosphor bronze wire brushes are very suitable for removal of glue or adhesives, cleaning, dusting and fine surface finishing before staining. They are also recommended for rubbing the stain into the pores of the wood after spraying. The fibre brushes with incorporated leather strips will achieve great results polishing waxed surfaces.

Dimensions A T L B mm				Rows	Phosphor bronze wire Crimped 0,20 mm Item No.	Fibre/phos. bronze wire Crimped 0,20 mm Item No.	Fibre/leather Item No.	Fibre Item No.	Pack. Qty.
145	15	125	55	6	001-166 685	0001-166 936			12
185	15	155	60	6	0001-167 687				12
165	18		58	6			0001-168 936		12
190	25		80	7				0001-167 947*	12

\* with intermediate board and leather strap

**File card**

Ideal for cleaning of files, rasps or rifflers.

Dimensions A L B mm			Scratching belt Straight Item No.	Pack. Qty.
115	235	40	0003-140 102	12

OSBORN PRO brush sealings

Using h- or F-Profile aluminium extrusions, OSBORN PRO brush seals may either be grooved directly or they can be fixed with screws. The high quality horse hair fill ensures optimal thermal insulation, perfect sealing effects, flexibility and UV resistance. An extensive range of seals with trim lengths

15, 25, 35 and 45 mm is available from stock either with or without aluminium extrusion. Special dimensions and shapes can be produced according to customers' specifications.

**PRO brush seals with horse hair filling**

L mm	T	Strip brush Item No.	Strip brush incl. extrusion "h" 180° Item No.	Strip brush incl. extrusion "F" 90° Item No.	Pack. Qty.
1000	15	0004-905 962	0004-906 962	0014-293 324	10
1200	15	0024-905 962	0024-906 962	0084-293 324	10
2000	15	0034-905 962	0034-906 962	0124-293 324	10
1000	20	0004-905 963	0004-906 963	0024-293 324	10
1200	20	0024-905 963	0024-906 963	0094-293 324	10
2000	20	0034-905 963	0034-906 963	0134-293 324	10
1000	35	0004-905 954	0004-906 954	0044-293 324	10
1200	35	0024-905 954	0024-906 954	0104-293 324	10
2000	35	0034-905 954	0034-906 954	0144-293 324	10
1000	45	0004-905 955	0004-906 955	0054-293 324	10
1200	45	0024-905 955	0024-906 955	0114-293 324	10
2000	45	0034-905 955	0034-906 955	0154-293 324	10

EZ-Flex®

EZ-Flex® is an innovative Osborn made strip brush which, due to its flexibility and adaptability in design, serves as a cable duct element for furniture or constructive components. A further advantage in comparison to plastic strips with bundle construction is the completely dense surface. The reduction of weight, volume and bulkiness leads to

simplification in transport, handling and storage. Even the smallest gaps can be optimally filled by the tiniest EZ-Flex® strip brush with only 6 mm trim length and 10 mm total height.

**EZ-Flex® strip brushes**

OAT +/- 0,5 mm	PA6 (SBN)	Typ	W mm	H mm	Item No.
10,0	0,15	FLA	2,6	3,6	7907-907 821
15,0	0,15				7917-907 821
30,0	0,15				7907-907 823
22,0	0,15	FLC	4,6	5,1	7907-907 822
32,0	0,15				7917-907 823
37,0	0,20	FLD	37,0	0,20	7907-907 824
48,0	0,30				7907-907 835
58,0	0,30				7907-907 836
83,0	0,30				7907-907 838

**EZ-Flex® strip brushes with integrated holder**

OAT +/- 0,5 mm	PA6 (SBN)	Typ	W mm	H mm	PF mm	PF+PH mm	PT mm	Item No.
21,0	0,15	FLIH	5,9	6,0	8,2	14,2	2	7917-907 822
31,0	0,15							7907-907 823

**OSBORN PRO**

The product range for professional applications.

**Individual trading concepts**

The product range for professional applications.

In addition to the standard range of brushing tools, we can supply a range of products for resale which are specially designed to attract attention at the point of sale.



[www.diy-brush.com](http://www.diy-brush.com)

**Lippert-Unipol polishing and surface finishing tools**

The Lippert-Unipol product range contains the following products for polishing and surface finishing applications:

Abrasive non-woven tools, abrasive brushes in various constructions, coated abrasive tools, polishing emulsions as well as polishing buffs and mops, made from cloth, sisal, sisal/cord, sisal cloth and Notiflex® non-woven materials.



[www.lippert-unipol.com](http://www.lippert-unipol.com)

**OSBORN TOP**

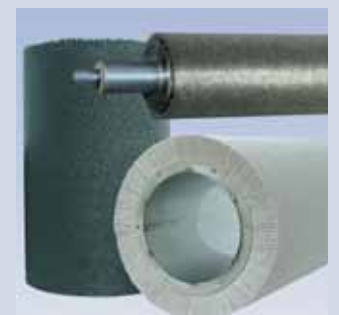
High performance power brushes - Superior range for demanding applications and intense production conditions in industrial settings.



[www.top-brush.com](http://www.top-brush.com)

**Innovative solutions for primary metals processing**

Innovative and quality products and solutions targeted for machine system engineering and operating of rolling mills and strip processing line technology.



[www.metallurgy-brush.com](http://www.metallurgy-brush.com)

### Multizack system and punched roller brushes



Products for a wide range of applications: Brushes for cleaning, deburring, transporting, sorting, washing, guiding and structuring.

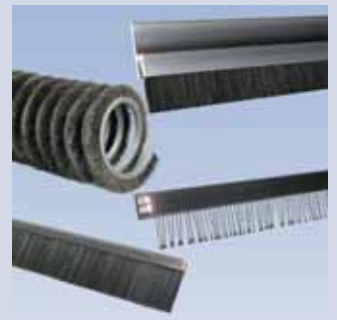


### OSBORN MultiStrip®



Saving thermal energy, reducing the passage of sound, protecting against insect and vermin infestation, sealing against dust, dirt, water and smoke, cleaning of industrial and commercial conveying systems.

[www.multistrip.de](http://www.multistrip.de)



### OSBORN Novofil®



Abrasive nylon brushes in Hi Tec filaments, rectangular and round in Diamond, Zirconium, Aluminium Oxide and Silicon Carbide. Available in a wide range of grit values.



### Microabrasive brushes and miniature tool brushes



Flexible, highly efficient brushing tools for surface finishing of small bores and cross hole deburring.

[www.microabrasive-brush.com](http://www.microabrasive-brush.com)



### OSBORN Load Runners®



Load handling systems for precise movement of heavy loads in demanding industrial applications.

[www.loadrunners.de](http://www.loadrunners.de)





**Lippert Unipol GmbH** · Manufacturer of Abrasive and Polishing Tools and Polishing Compounds  
Eschelbronner Straße 35 · 74925 Epfenbach - Germany · Phone: +49 (0) 72 63 / 91 24-0 · Fax: +49 (0) 72 63 / 91 24-91  
eMail: sales.lippert@lippert-unipol.com · www.lippert-unipol.com



**OSBORN International GmbH** · Manufacturer of Industrial Brushes, Surface Finishing Tools and Load Runners  
Ringstraße 10 · 35099 Burgwald - Germany · Phone.: +49 (0) 64 51 / 5 88-0 · Fax: +49 (0) 64 51 / 5 88-208  
eMail: info@osborn.de · www.osborn.de