



Brushes for Concrete Industry



Why Osborn?

We bring together global engineering expertise and strong local support to deliver high-quality, innovative products and solutions for brush machines to the concrete industry. By combining international know-how with hands-on service close to our customers, we ensure tailored and efficient solutions that meet the highest industry standards. Our approach is defined by reliability and long-term partnerships with our customers, our employees and within our organization. We are equally committed to protecting the environment and conserving natural resources. Responsible business practices and environmental awareness are embedded in every step of our value chain.

Our Services in Burgwald.

Through many years of cooperative development work with machinery manufacturers in the design of rolls and brush machines as well as with the operators concerning production line and process optimization, we achieved wealth of experience in this field. Through our worldwide sales and service network we are able to guarantee comprehensive technical support for new production lines around the globe in all stages of project development from the initial design to commissioning. A whole list of well-known manufacturers in the business of concrete plates, concrete blocks and paving stones benefit from this expertise, which ultimately rewards the plant operator in the form of highly engineered products, innovative technologies and cost-effective solutions. In addition to the manufacturing of complete brush rollers with different shafts and body constructions, our range of services also includes bearing units and accessories.



Before - the filling is worn out and needs to be refilled



Step 1 - The used material gets completely removed and the roller is covered with new material



Step 2 - To achieve the best possible result, the brush surface is trimmed and processed.



Step 3 - The brush is carefully aligned and precisely balanced to ensure optimal results.

Once all parameters have been checked, the brush is packed for safe delivery back to the customer.

Applications

Roller brushes are essential tools in the processing of stone and concrete. They are used in many different stages of production and finishing and can be adapted to a wide range of requirements. The following overview highlights the most common areas of application.

Plates/Paving Stones

- Surface finishing
- Cleaning
- Curling
- Flattening
- Structuring

Formworks for Manufacturing of Stone- and Concrete Forms

- Cleaning

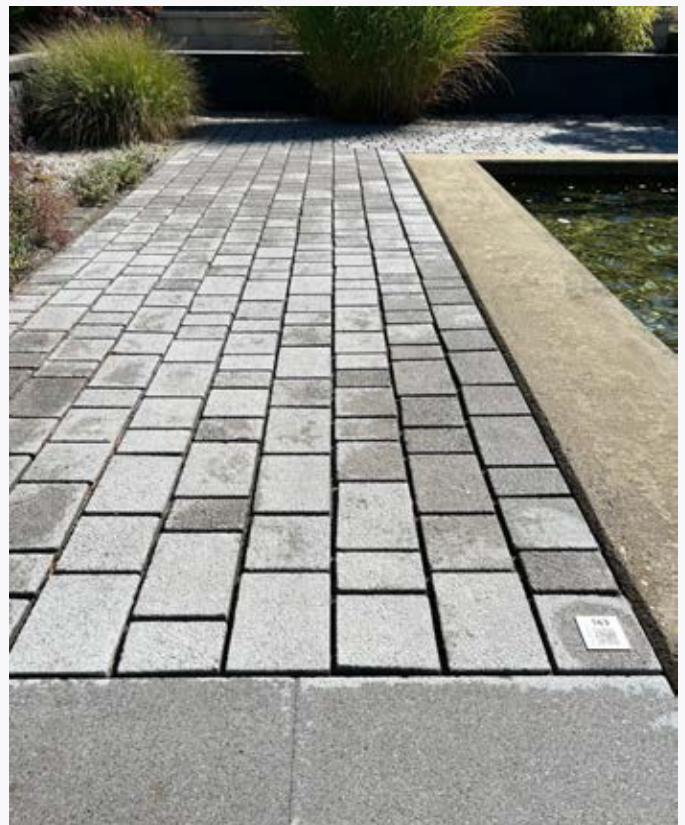
Paletts/Devices/Transport units/etc. for Handling and Transport of Stone and Concrete Units

- Cleaning

Plant, Stone and Concrete Areas

- Cleaning
- Sweeping

Brushed Surfaces



Brush Systems for Self-Assembly by the Customer

Our solution for customers who want to restore and maintain their brushes in-house are roller systems for self-assembly. Our product and service range includes sections with fully automatic, internally welded spiral constructions, disc systems, as well as versions mounted on disposable tube bodies or older designs with single discs or loose spirals. To adapt these individually to existing shaft constructions, single-use adapters are added if required. This enables us to supply the right brush section for almost any customer shaft – unmatched by any other manufacturer worldwide. The fill material can be customized in trim length and density – from light to standard to extremely dense.

Curling Brush Sections



With our modern shaft constructions it is possible to avoid balancing the shafts. Precision manufactured inner diameters in narrow tolerance ranges ensure that the individual sections fit optimally on the shaft and prevent vibrations when running. Intelligent and well-engineered roll constructions without complicated clamping systems make the exchange of brush coverings fast and simple.

The brush segments are trimmed in sets. Each individual segment is labelled and marked in accordance with the assembly instructions.

These brushes are mainly used for curling and finishing applications, providing fine smoothing of concrete surfaces on plates, blocks, and paving stones. The process creates a matte-gloss effect, making surfaces dirt- and moisture-repellent as well as non-slip.

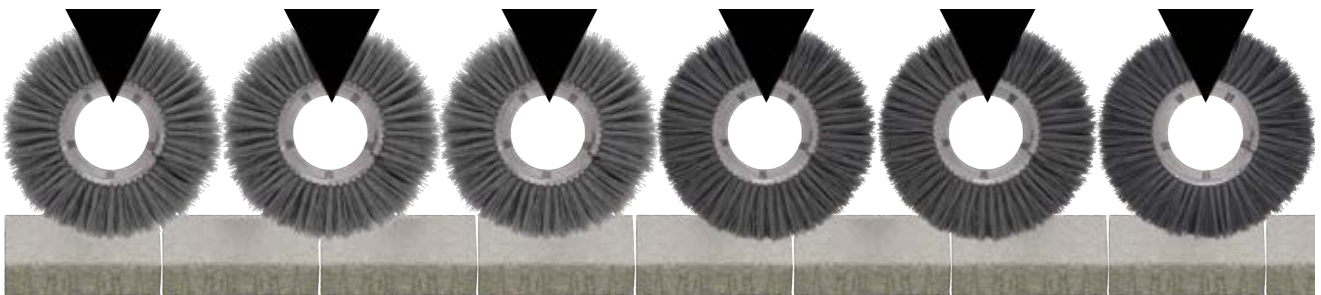
The final result depends on the number of brushes used and the degree of abrasiveness selected.

Typical Brush Set-Up for Curling Applications:

Novofil NNS 46

Novofil NNS 80

Novofil NNS 120



We also offer the curling brush section as a punched brush version with a plastic body.

Spiral Roller Brushes

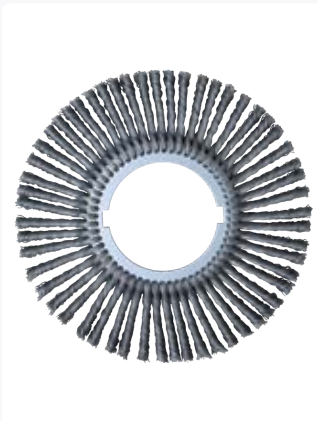


Spiral Roller Brushes on tube-bodies with different abrasive filament for achieving requested finishing on the surface of concrete blocks and plates. This type can be designed as re-usable or as one-way system.



Brushes wound with pitch provide greater flexibility in immersion depth and can be used for different shapes.

Knotted Wide-Face Roller Brushes



Durable roller brushes made of knotted brush rings, specially designed for heavy-duty cleaning of dirty frames, molds, or boards. We offer a standard version with an outer diameter of Ø300mm and steel wire of Ø0.80mm, but customer dimensions are available on request.

Wheel Brushes

Wheel brushes are used for transverse and side cleaning of formworks in stone and concrete production. They effectively remove concrete residues, dust, and release agents, ensuring clean molds and consistent product quality. Available with knotted or crimped steel wire for heavy-duty or gentle cleaning tasks.



Glue or Adhesive Removal

When bonding two different concrete slabs, it is possible for unsightly adhesive residue to appear around the edges, which can affect the fit and appearance. With our wheel brushes, it is possible to easily remove the adhesive residue without significantly damaging the surface structure.



Before



After



Knotted Wheel Brush

Punched Brushes

Punched brushes are suitable for demanding applications on stone and concrete surfaces, where both precision and durability are required. They can be manufactured in a wide range of outer diameters and installation widths to match specific machine setups.

By using plastic or wooden brush bodies, the overall weight is reduced compared to metal versions. This lower dead weight minimizes strain on the drive system and allows for more efficient energy use.

The bristle material is anchored in drilled holes arranged in a defined pattern. The number of holes, as well as their spacing, determine the filling density of the brush body and thereby influence brushing performance, aggressiveness, and surface results.

Types of Punched Brushes



Wheel and Roller Brushes



Disc Brushes



Lath Brushes



Multizack Brushes

Punched Disc Brushes

For Panel Formwork cleaning



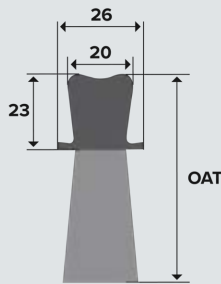
Various Options of Cleaning Applications

Strip Brushes



Strip brushes with galvanized special backing tape, combining steel wires and black polypropylene for extra durability. Primarily used for removing excess cement from molds in the precast concrete industry. Available in 1400 mm length (+/-10 mm) and can be cut to custom sizes on request.

Note: A slight curvature may occur in very long brushes.



Standard Dimension:

Inside: Flat steel wire 1,1x0,25mm

Outside: PP 3,0x2,0mm

OAT: 95, 115 and 145 mm

Broomate® Professional Cleaning Solutions.

At production facilities, there are a lot of areas that need to be cleaned continually. Osborn has developed a sweep solution that meets this need - that is simple, professional and affordable. Our broom is made of high quality strip brushes that are inserted under a galvanized steel hood having a thickness of 5 mm.

The Osborn Broomate® can be attached to a whole range of industrial vehicles and cleans up all kinds of dirt including liquids. There are no rotating or electrical parts. Just attach the broom to your vehicle - done!



Terms & Conditions and Contact Addresses.

Refer to our website for our general terms of payment and delivery and further information on ordering and dispatch.

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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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