

# Road Sweeping Products

from

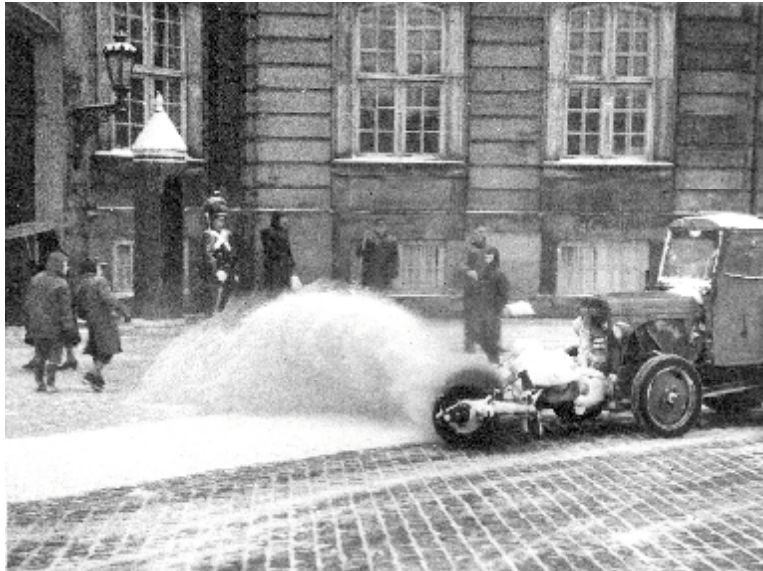
OSBORN INTERNATIONAL OF DANMARK  
(former known as DAN Børstefabriken)



## COMPANY HISTORY

### 1930 to 1960

OSBORN INTERNATIONAL OF DANMARK's roots go back to 1934 when it was started as DAN Børstefabriken, a factory for industrial brushes & Road Sweeping brushes.



### 1960 to 1970

Taking advantage of the know-how gained within the highly demanding manufacturing of industrial brushes DAN Børstefabriken started to manufacture brushes for Road & Runway Sweeping in the nineteen-sixties.

### 1970 to 1980

A few years later manufacturing of large Runway Sweeping machines was started, too.



## 1980 to 1990

Production of Airport Sweepers stopped. From now on the experience gained was almost fully used to develop the most comprehensive brush range with the highest quality.

## 1990 to 2000

Several competitors were taken over and their expertise and machinery were successfully implemented into DAN Børstefabriken. In the late nineties (1999) DAN Børstefabriken became part of Osborn International, the worlds largest and leading manufacturer of industrial brush tools.



## 2000 to date

Combining the probably world wide unique depth in Road & Airport Sweeping with the organizational & financial power of the world wide largest brush manufacturing group, OSBORN INTERNATIONAL OF DANMARK is going to strive for being the best supplier to the Road & Airport Sweeping market.



## PRODUCTS FOR ROAD SWEEPING

### 1 SWEEPING SECTIONS



### 2 SPACERS



### 3 BRUSH CORES



### 4 STRIP BRUSHES FOR SWEEPERS



### 5 SIDEBRUSHES



### 6 WEED TUFTS



## AVAILABLE BRISTLES FOR SWEEPING SECTIONS

- 1 Polypropylene
- 2 Nylon
- 3 galvanized crimped steel wire

### 1 Polypropylene

The classic brush ring for sweeping applications. The rigid PP bristles provide a optimum in price/performance ratio. Almost all surfaces can be swept and cleaned. PP is fully recyclable.

#### Currently available PP birstles

We are **running our own extruder** at our manufacturing plant. That insures that we always get the right quality and best prices. It also enables us to offer you a very wide range of different PP birstles.

shapes:      straight                  crimped                  round                  oval

|                                  }                                  ●                                  ○

We can offer a wide range of diameters.  
The range goes **from minimum 0,90mm to maximum 3,3mm.**

#### Classic diameters currently available

width x length  
1,0 x 1,4mm  
1,3 x 1,7mm  
1,5 x 2,5mm  
1,7 x 2,8mm  
1,8 x 3,3mm

When it comes to **colours** we have a wide variety to offer.

Classic colours are:

white      blue      black      yellow      red      green

○      ●      ●      ●      ●      ●

Other colours can be provided on demand!

## AVAILABLE BRISTLES FOR SWEEPING SECTIONS

### 2 Nylon

Due to its excellent mechanical properties the lifetime of a Nylon brush ring is much longer than the lifetime of a common PP bristle. Specially under extrem conditions, like wet, hot or very cold environments the nylon bristle has a very favourable performance.

shapes:

straight



round



Classic nylon diameters currently available:  
(Other diameters can be provided on demand)

1,2mm  
1,5mm  
2,0mm

Classic colours currently available:  
(Other colours can be provided on demand)

white (natural)



black



### 3 Steel wire

Sweeping sections with wire are used for tough sweeping applications. The low diameter and the hardness of the wire enables the operator to remove even compacted earth, clay or other sticky conterminations from the ground.

It is also recommended for use on warm or even hot surfaces.

Currently available wire sizes:

crimped galvanized steel wire **0,70mm**

crimped galvanized steel wire **0,45mm** (only for high-speed sections)

shapes:

crimped



round



## 1 SWEEPING SECTIONS

### 1.1 STRAIGHT

with polypropylene, nylon or steel birstles

for high speed applications – with wire or PP



### 1.2 CONICAL

with polypropylene or steel birstles



### 1.3 ZIGZAG

with polypropylene or steel birstles



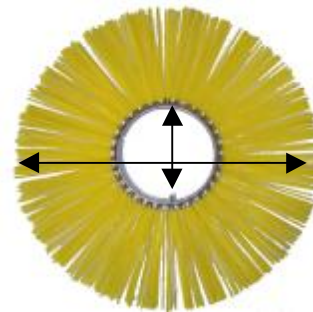
## 1 SWEEPING SECTIONS

### 1.1 Straight

#### 1.1.1 with polypropylene, nylon or steel bristles

OSBORN INTERNATIONAL OF DANMARK can currently offer the following dimensions of straight sweeping sections:

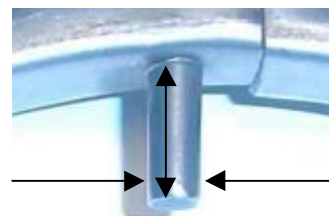
Outer dia	Inner dia
from	50,8mm (2")
	76mm (3")
	78mm
	100mm
190mm	110mm
	112mm
	128mm (5")
	130mm
to	152mm (6")
	162mm
	167mm
	178mm (7")
930mm	205mm
	210mm
	220mm
	235mm
	254mm (10")
	273mm (10.75")
	285mm
	300mm



### Currently available driving pins

(Diameter x length)

- 4,6 x 6mm
- 5 x 8mm
- 6 x 8mm
- 6 x 10mm
- 6 x 16mm
- 6 x 18mm
- 8 x 16mm



## 1 SWEEPING SECTIONS

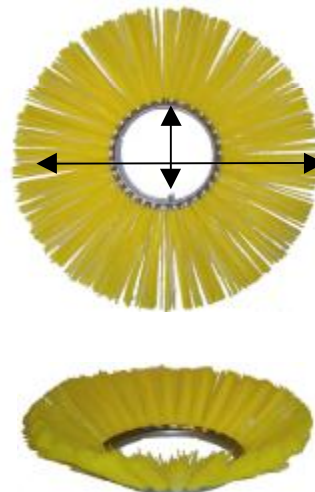
### 1.2 Conical

#### 1.2.1 with polypropylene and steel bristles

Conical sweeping sections are used at the end of a brush core. The angled bristles cover the rotary mechanism of the axle and increase the brushing width.

OSBORN INTERNATIONAL OF DANMARK can currently offer the following dimensions of conical sweeping sections with PP bristles.

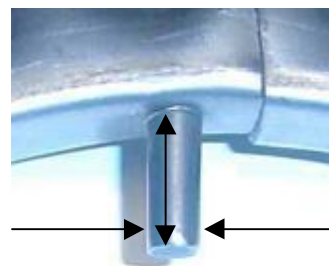
<b>Outer dia (OD)</b>	<b>Inner dia (ID)</b>
from	50,8mm (2")
	76mm (3")
	78mm
	100mm
190mm	110mm
	112mm
	128mm (5")
	130mm
to	152mm (6")
	162mm
	167mm
	178mm (7")
930mm	205mm
	210mm
	220mm
	235mm
	254mm (10")
	285mm
	300mm



### Currently available driving pins

(Diameter x length)

- 4,6 x 6mm
- 5 x 8mm
- 6 x 8mm
- 6 x 10mm
- 6 x 16mm
- 6 x 18mm
- 8 x 16mm



## 1 SWEEPING SECTIONS

### 1.3 ZigZag with polypropylene or steel bristles.

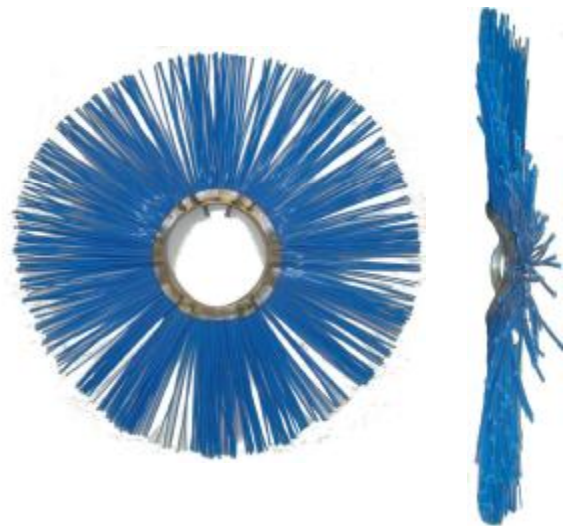
The advantage of this innovative and cost efficient product is the wavy shape of the inner ring:

- No spacers are needed in between the sections – this saves money and makes the handling easier
- The bristles form a wavy surface – no stripes will remain on the cleaned surface.
- As OSBORN INTERNATIONAL OF DANMARK is also able to offer ZigZag brushes with steel bristles, it is possible to have an PP & steel mix on the brush core. That has proven to be an optimal combination. The hard steel wire loosen even compacted earth and clay. The PP bristles sweep the residues away.
- The inner ring made of steel will not deform or break even under extremely high or low temperatures.
- Due to its design the costs are rather low compared to sweeping sections completely made of PP.



OSBORN INTERNATIONAL OF DANMARK can currently offer the following dimensions of ZigZag sweeping sections with polypropylene or steel bristles.

<b>Outer dia (OD)</b>	<b>Inner dia (ID)</b>
300mm	76mm (3")
	110mm
	128mm (5")
	162mm
to	167mm
	178mm (7")
	220mm
	254mm (10")
930mm	300mm



All ZigZag sections are made with 2 driving pins. That assures that the sections will not move on the brush core and stay at the same position.

### Currently available driving pins

(Diameter x length)	distance between pins
6 x 10mm	
6 x 16mm	
6 x 18mm	
8 x 16mm	



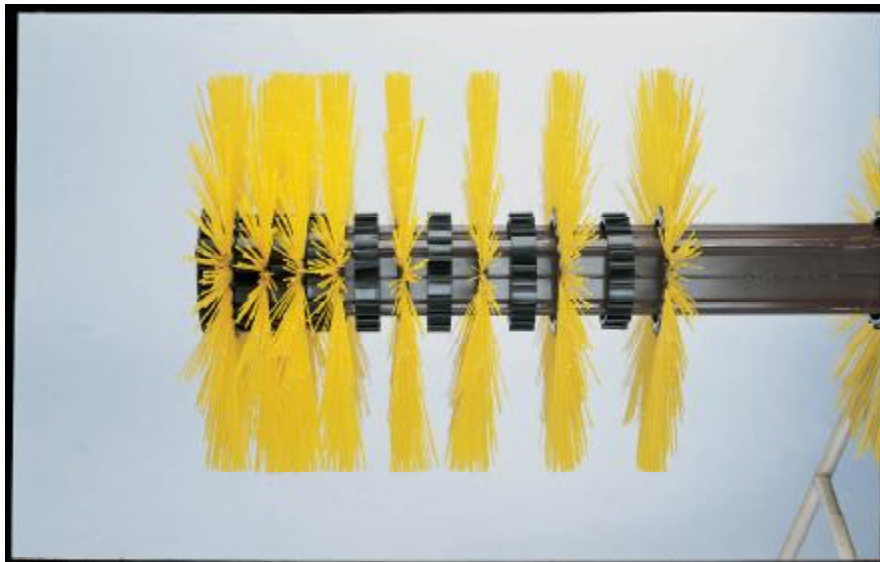


## 2 SPACERS

### 2.1 MADE OF PLASTIC



### 2.2 MADE OF GALVANIZED STEEL



## 2 SPACERS

### 2.1 MADE OF PLASTIC

Plastic spacers come with a very light weight, so they reduce the load on the engine.  
Plastic spacers are not affected by wet surroundings and will not start to corrode or deform.

Following sizes are available:

<b>Dia</b>		<b>width</b>
76mm (3")	x	10mm
76mm (3")	x	16mm
76mm (3")	x	25mm
110mm	x	30mm
127 (5")	x	10mm
127 (5")	x	15mm
127 (5")	x	30mm
178 (7")	x	30mm



Other dimensions are available on request!

## 2 SPACERS

### 2.2 MADE OF GALVANIZED STEEL

Spacers made of steel are the classic spacer used at sweepers. Osborn International offers a wide range of spacers made of galvanized steel. The galvanization protects the steel ring from rust; that makes handling easier and gives the product a long lifetime.

Following sizes are available:

<b>Dia</b>		<b>width</b>
110mm	x	16mm
110mm	x	22mm
127mm (5")	x	15mm
127mm (5")	x	22mm
127mm (5")	x	30mm
162mm	x	22mm
178mm (7")	x	16mm
178mm (7")	x	30mm
235mm	x	22mm
254mm (10")	x	16mm
254mm (10")	x	22mm
273mm (10 ¾")	x	16mm
300mm	x	30mm



Other dimensions are available on request!

### 3 BRUSH CORES

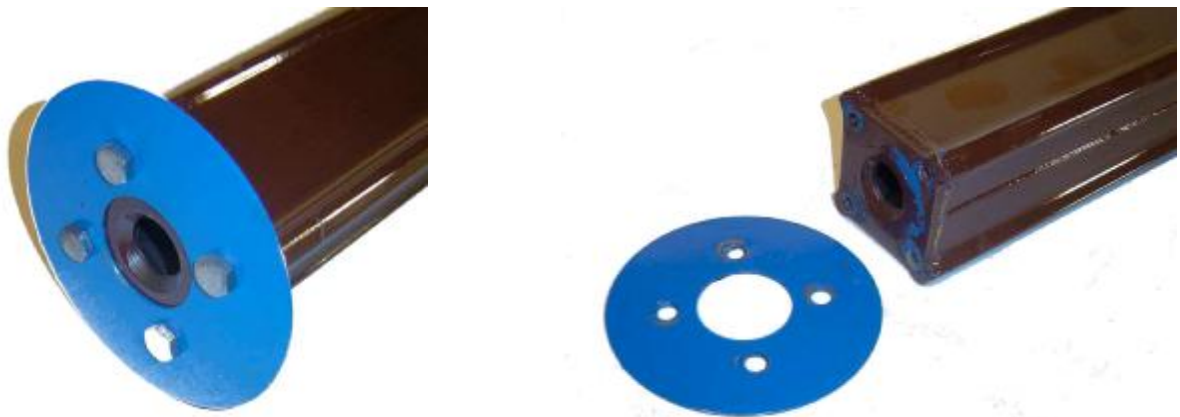
Made of steel.

Osborn International offers a wide range of brush cores that can carry sweeping sections. Our cores are made of rigid steel sheet and come with a long lasting coating.

Brush cores from Osborn International assure that the brush sections made by Osborn will fit perfectly on the core.



All cores come with a sideplate the will assure a perfect mounting.



The following sizes are available at present. Other dimensions are available on request.

<b>Diameter</b>		<b>Length</b>
50,4mm	(2")	up to 2.620mm
76mm	(3")	
110mm		
127mm	(5")	
178mm	(7")	
254mm	(10")	

## 4 STRIP BRUSHES FOR SWEEPERS

Fully made of polypropylene.

These stripbrushes fit into brush cores with welded on rails to guide the strip. The strips are made of 100% polipropylene and therefore they can not rust. They are 100% recycable and easy to exchange.

We can offer a wide range of bristles sizes and colours. The maximum length is 4000mm and the maximum height is 500mm. Within that range almost all dimensions can be manufactured according to your wishes.



## Gutterbroom fully made of Plastics

### Features:

- a) can be 100% recycled
- b) light-weight
  - saves freight charges
  - reduces the load on the engine of the sweeping facility
- c) no parts that can
  - corrode (eg steel or metal parts)
  - start to rot away (eg wooden topplates)
- d) easy to store
  - can be stored outside as non-sensitive against weather conditions
- e) only the 2 outer rows
  - at all sweepers it is only the two outer rows who do the actual cleaning job.  
The inner rings actually just support the brush.

Osborn has left the inner rows out. So we could save some costs and can therefore offer you the optimal price / performance ratio!

The two outer rows come with an extraordinary high density. So the bristles support each other and provide an efficient sweeping operation!

## The Osborn Lean Broom



**brings engineering down to  
what is really needed!**

We can offer a variety of polipropylene bristles in length and diameter for those brushes.  
The following topplate diameters are at present available:

## Diameter

240mm  
285mm  
315mm  
350mm  
410mm  
490mm  
510mm  
520mm  
750mm (cut into 4 pcs)

