



Finish. First.



Practical Solutions
for the [Pipeline Industry](#)

About Osborn

Since Osborn's inception in 1887, success has always been about ensuring that you finish first. Whether it was last century, last week or in the last hour, customers like you need the right solutions and count on us.

As the global leader in surface treatment and finishing solutions, we have more patents on products and processes than all other brush companies combined.

Engineering expertise and manufacturing skills are what set the Osborn brand apart. People experienced in surface treatment solutions and finishing tools, collaborating with customers to achieve optimum results. Matching tough finishing problems with the right solutions when and where you need them.

In addition to more than 10,000 standard products sold in more than 120 countries, we offer local support throughout the world. So, no matter where you or your customers are located, you will always have access to Osborn application expertise and the industry's best, most practical solutions.

When you start with Osborn, you finish first.



Operations in

14

Countries



Sales offices in

23

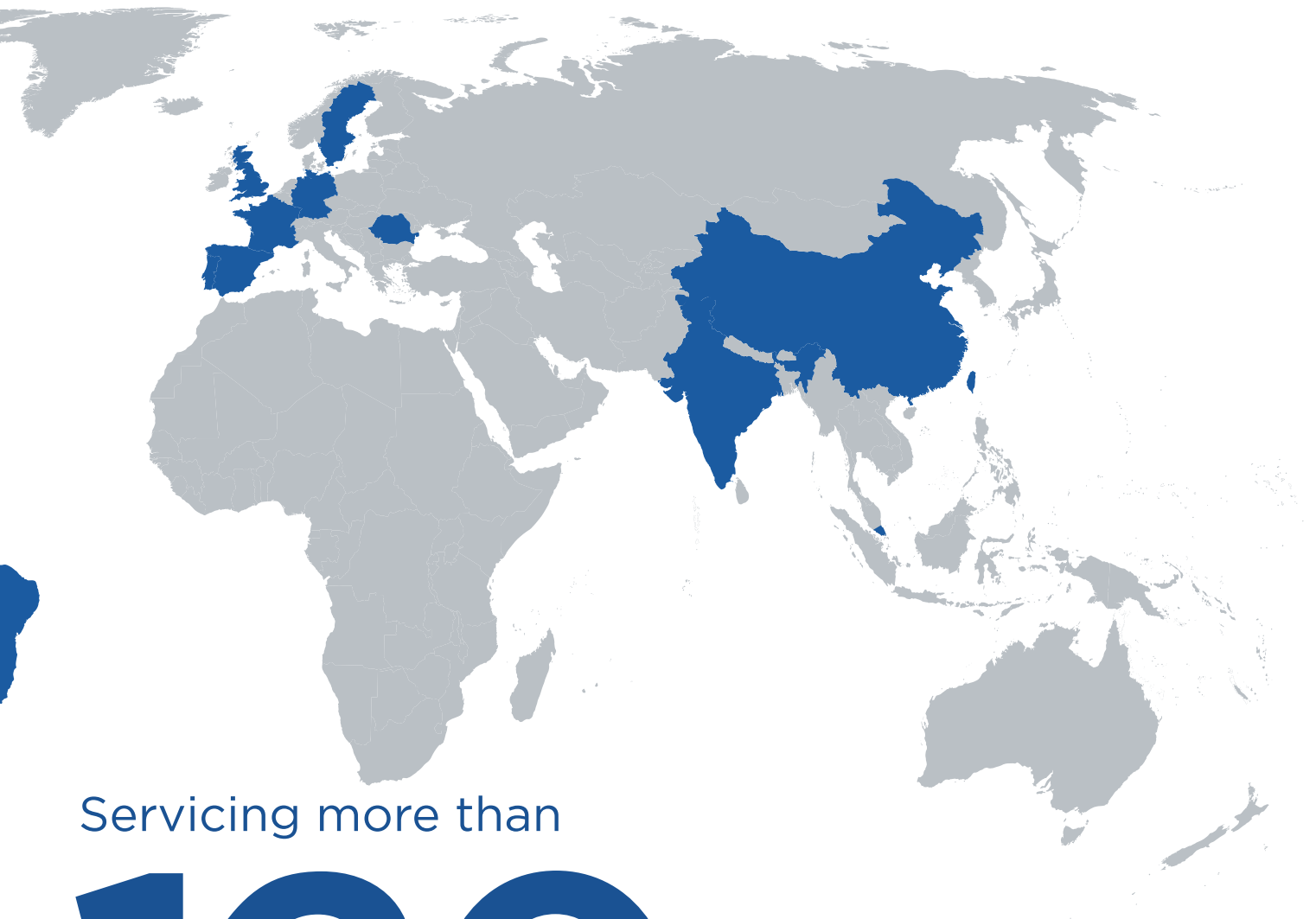
Countries

2,000

Employees worldwide

Brazil
China
France
Germany
India
Mexico
Portugal
Romania
Singapore
Spain
Sweden
Taiwan
United Kingdom
United States

Offers access to new ideas, economies of scale, and new techniques to master your surface treatment and finishing needs.



Servicing more than

120

Countries

through numerous agencies and strong distribution networks. Providing insight into the customs and best practices necessary to succeed anywhere in the world.

Your Partner for all...

EXPLORATION

Whether **weld cleaning tools** are used for tough on or offshore exploration jobs or needed in construction yards, on pontoons, drill rigs or steel framework – you can always count on the reliability and safe performance of Osborn tools. High alloy steel and stainless steel wires – if necessary V4A non-ferrous quality is also available, – are the first choice tools for all material sensitive cleaning jobs such as silicate, slag or rust removal or descaling. Osborn brushes are designed to fit in all types of existing equipment like angle grinders, high speed pneumatic tools or even regular hand drills for (semi-professional) jobs.

Wound and arc strip brushes **for well bore and drill hole cleaning** are made to order items and fit into any existing drill pipe holders. Help to maintain pressure and viscosity high.



osb

PIPE MANUFACTURING

Osborn is the all-round service provider for all kinds of brush solutions in the pipe coating industry. We cover the full spectrum: **Contact brushes** are used to set continuous electric contacts in pipe welding factories and **Transport Rollers** designed for installation in the hot zone next to the induction heater are typically used in the pre-manufacturing process.

Osborn **CUTBACK brushes** remove excess coating on pipe ends quickly, efficiently and cost effectively. Cooperation with leading equipment manufacturers worldwide assures easy assembly of ready-to-use brush sets and single sections in existing devices.



Take advantage of our global distribution network. Osborn brushes are available all over the world, very often in less than 48 hours.

WELD CLEANING

MIG, MAG, TIG and hand welding processes create very different kinds of debris and users have to rely on the effectiveness of the weld cleaning tool.



Silicates, debris and blueing are not easy to identify in root and fill layers and welding engineers must be able to trust the effectiveness of the chosen cleaning tool. Osborn wire brushes are non-stock removing and leave the welded base material untouched.

However, welding debris will be removed completely on every single layer. Choose first class brushes to keep rework costs to a minimum.

The safety and performance of Osborn **weld cleaning brushes** is second to none. Service life extends to several hundred meters of weld cleaning, far beyond the volume achieved with regular abrasive discs and with a lot less noise and almost spark free.

orn



PIGGING

Osborn Pigging brushes, for pipeline service providers, clean paraffin and other layers of debris in operating pipeline systems. Osborn pigging brushes are part of MFL inspection equipment, which locates defects in pipeline, so as to avoid oil and gas hazards.

Custom made strip or single section brushes made of wire or synthetic bristle ensure that residue is removed from the inner wall of the pipe, increasing the transportation capacity.

Exploration & Drilling





osborn



Exploration & Drilling

Osborn is the world's leading supplier of surface treatment solutions and high-quality finishing tools for hundreds of industrial and commercial applications, including pipeline and oilfield construction. Osborn's high-quality, innovative and customized tools, as well as excellent customer service, provide the right tools for the right applications.

We offer 100% inspection to assure a perfect fit in your tool !



Osborn: Officially good!

A TÜV seal means "tested without compromise" and indicates quality at the first glance. Osborn is the only manufacturer in its sector to obtain this certification. This sets Osborn clearly apart from its competitors. A resounding commitment for the consumer.

650 Osborn products out of our standard assortment are certified by TÜV-Süd.

WELD CLEANING

Osborn products are unsurpassed in value and service life. Using Osborn brushes for weld cleaning in on and offshore construction, has a lower thermal impact on surfaces as well as significant overall quality benefits which include lowering the chances of corrosion, grooving and micro fissures. Osborn brushes are non-stock removing and almost spark free, with a noise level far below abrasive tools.



Weld seam cleaning with wire brushes



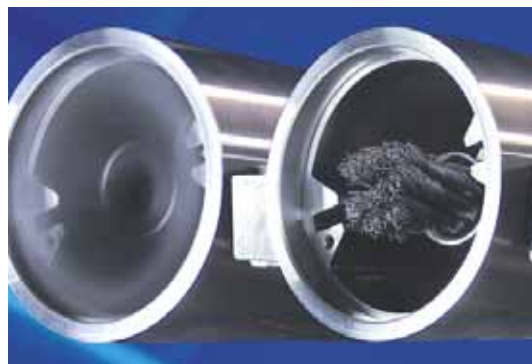
RUST AND PAINT REMOVAL JOBS

Brushes with crimped or knot style wires are the most common tool used to remove anti-corrosion varnishes and paint from metal surfaces. Non-ferrous materials like stainless steel and aluminium should be brushed with a high alloy stainless steel wire 1.4301 or even 1.4401 (AISI 304 & 316).

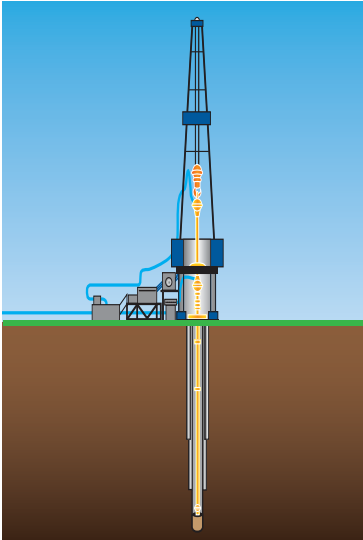
Crimped wire brushes create a metallic, blank and satinized surface which can be coated immediately after brushing. Twist knot brushes are the first choice tool for debris that is hard to remove like heavy corrosion and thick layers of paint and coating.

HARD TO REACH AREAS

Osborn Ruftuf brushes are the so called “swiss knife” of the brush industry as brush size is variable and can be changed by simply adjusting the speed of the driving unit. Ruftuf brushes are available in various sizes, in steel and stainless steel wire. Maximum extension to 80-90 mm will be achieved at a work speed of 5,000 – 8,000 RPM.



Ruftuf brushes for internal cleaning at 8,000 RPM



Drill tower



Down hole brushes in a tool holder

WELL BORE BRUSHES

Together with casing scrapers Osborn strip brushes help to maintain a defined pressure level during the wellbore maintenance process. Specially designed Osborn brushes are also used to achieve a specific roughness on the casing during the final completion process. Osborn supplies carbon and stainless steel brushes with clockwise or anti-clockwise helix, various channel widths and any required length. Brushes are subjected to 100% inspection to ensure the perfect fit.



Drill pipe cleaning with wire brushes

DRILL PIPE CLEANING BRUSHES

Heavy duty disc centre brushes are available to be used on machines used to clean the outside diameter of the pipe; brushes can be supplied as single sections or as units of multiple sections, with or without face plates. When the sections are mounted together the special Osborn design is such that the knots inter-lock eliminating stripes on the surface.

THREAD CLEANING

High quality Ringlock brushes designed for manual use in high speed die grinders are available in 2, 2 ½ and 3 inch diameter with a special crimp to assure the highest density possible. Ruftuf end brushes are also popular for inside diameter cleaning.

The demands on on and offshore steel construction work are very high



- Salt water environment, corrosion resistance and outdoor work, dictate the need for reliable tools.
- Osborn brushes fulfill all your expectations, they are safe and long lasting cleaning tools for steel works, shipyards, drill rigs and oil and gas companies.
- Whether the parts to be processed are flat, profiled or beveled we have the right brushes, all of which are performance and safety tested in the most modern laboratories in the brush industry.

OIL SKIMMING

Floats employed to remove oil slick are often equipped with special brushes, manufactured according to the customer request.

Roller brushes with a plastic core and oil-resistant bristles collect excess oil from the surface of the water quickly and efficiently, the oil is then removed from the brushes.



Oil Skimmers



Oil-Skimming roller brushes



Special brushes for industrial purposes



Oil Skimmers with Osborn roller brushes

Wheel brushes for descaling, deburring and cleaning of weld seams. knotted Osborn wire



Wire dia in mm determined by application

	0.25	0.35	0.50	0.60	0.80
roughening	□	□	■	■	■
planing	□	□	■	■	■
deburring	□	□	■	■	■
descaling/paint stripping	■	■	■	■	■
weld seams	■	■	■	■	■

Trim and material

Products available with:

Steel wire	→	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium
Stainless steel	→	■	■	■	■	■

Dia mm	Dia Inch	Face mm	Face Inch	Grinder size	wall thickness up to >	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316
100	4"	6	1/4"	100 mm / 4"	10 mm	available	available	on request
100	4"	13	1/2"	100 mm / 4"	10 mm	available	available	on request
115	4 1/2"	6	1/4"	115 mm / 4 1/2"	15 mm	available	available	on request
115	4 1/2"	13	1/2"	115 mm / 4 1/2"	15 mm	available	available	on request
125	5"	6	1/4"	125 mm / 5"	15 mm	available	available	on request
125	5"	13	1/2"	125 mm / 5"	15 mm	available	available	on request
150	6"	6	1/4"	150 mm / 6"	20 mm	available	available	on request
150	6"	13	1/2"	150 mm / 6"	20 mm	available	available	on request
165	6 1/2"	6	1/4"	180 mm / 7"	15 mm	available	available	on request
171	6 3/4"	6	1/4"	180 mm / 7"	15 mm	available	available	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	available	available	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	available	available	on request
178	7"	13	1/2"	180 mm / 7"	25 mm	available	available	on request
230	9"	6	1/4"	230 mm / 9"	35 mm	available	on request	on request
230	9"	13	1/2"	230 mm / 9"	35 mm	available	on request	on request
250	10"	25-100	1-4"	Drill pipe cleaning machine bore 25,4-100 mm / 1" to 4" incl. Keyways		available	available	on request

Cup brushes for aggressive rust and paint removal for hand grinders knotted wire



Wire dia in mm determined by application

	0.25	0.35	0.50	0.60	0.80
roughening	□	□	■	■	■
planing	□	□	■	■	■
deburring	□	□	■	■	■
descaling/paint stripping	■	■	■	■	■
weld seams	■	■	■	■	■

Trim and material

Products available with:

Steel wire	→	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium
Stainless steel	→	■	■	■	■	■

Dia mm	Dia Inch	Grinder size	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316
65	2 1/2"	100-125 mm / 4-5"	available	available	on request
75	3"	100-125 mm / 4-5"	available	available	on request
80	3"	150 mm / 6"	available	available	on request
100	4"	180 mm / 7"	available	available	on request
120	5"	230 mm / 9"	available	available	on request

Cup brushes for soft rust and paint removal for hand grinders crimped wire



Wire dia in mm determined by application

	0.15	0.20	0.25	0.30	0.35	0.40
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trim and material

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium
Products available with:					
Steel wire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Soft rust and paint removal brushes for hand grinders

Dia mm	Dia Inch	Grinder size	carbon steel wire, crimped	steel wire, brass coated	1.4301 / AISI 304	1.4401 / AISI 316
60	2 1/2"	100-125 mm / 4-5"	available	available	available	on request
75	3"	100-125 mm / 4-5"	available	available	available	on request
80	3"	150 mm / 6"	available	available	available	on request
100	4"	180 mm / 7"	available	available	available	on request
125	5"	230 mm / 9"	available	available	available	on request
150	6"	230 mm / 9"	available	available	available	on request

Bevel brushes for processing inaccessible areas e.g. angles, edges or corners. knotted or crimped wire



Wire dia in mm determined by application

	0.25	0.30	0.35	0.40	0.45	0.50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trim and material

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium
Products available with:					
Steel wire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Wire dia in mm determined by application

	0.20	0.25	0.30	0.35	0.40
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
deburring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
weld seams	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Trim and material

	Steel	Cast steel	Stainless steel	Non-ferrous metal	Aluminium
Products available with:					
Steel wire	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Dia mm	Dia Inch	Grinder size	carbon steel wire, crimped	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316
100	4"	100-115 mm / 4-5"	available	available	available	on request
115	4 1/2"	100-115 mm / 4-5"	available	available	available	on request
125	5"	125 mm / 5"	available	available	available	on request

Ruftuf end brushes for high-speed tools knotted Osborn wire



Wire dia in mm determined by application

	0.15	0.20	0.25	0.30	0.35	0.50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Trim and material

Products available with:

Steel wire twist knot	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

End brushes for hard to reach areas

Dia mm	Dia Inch	flares up to	flares up to	Grinder	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316	oil free / degreased
20	1/2"	25-75 mm	1"-3"	high speed grinders	available	available	available	on request
23	3/4"	25-75 mm	1"-3"	high speed grinders	available	available	available	on request
30	1"	30-85 mm	1">3"	high speed grinders	available	available	available	on request

Wheel brushes for high speed tools knotted or crimped wire



Wire dia in mm determined by application

	0.15	0.20	0.25	0.30	0.35	0.50
roughening	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
planing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
deburring	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
edge honing	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
structuring	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
descaling/paint stripping	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
weld seams	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Trim and material

Products available with:

Steel wire crimped	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Stainless steel	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Brass wire	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Dia mm	Dia Inch	Grinder	carbon steel wire, crimped	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316	Brass wire
20	1"	high speed grinders / hand drill	available		available	on request	available
30		high speed grinders / hand drill	available		available	on request	available
40		high speed grinders / hand drill	available		available	on request	available
50		high speed grinders / hand drill	available		available	on request	available
60		high speed grinders / hand drill	available		available	on request	available
70		high speed grinders / hand drill	available		available	on request	available
75		high speed grinders / hand drill		available	available	on request	
80	3 1/4"	high speed grinders / hand drill	available		available	on request	available

Hand brushes, brooms, paint brushes, various materials for manual operations



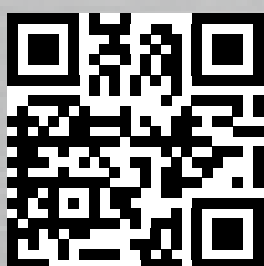
	Model	type	no. of rows	steel wire	stainless wire	brass wire	synthetic filament	Mexican Fibre
1	wooden handle	regular	2 rows	available	available	available		
1	wooden handle	regular	3 rows	available	available	available		
1	wooden handle	regular	4 rows	available	available	available		
1	wooden handle	regular	5 rows	available	available	available		
1	wooden handle	regular	6 rows	available	available	available		
1	wooden handle	welder's best	3 rows, pointed	available	available			
2	plastic handle scratch brush	conical	1 row	available	available	available		
3	Broom	regular	various	available			available	available
4	Paint Brush	regular						available

Did you know?

Load Runners® Idler Rollers

Osborn designed the world's first non-needle roller bearing idler roller more than fifty years ago to solve an internal manufacturing challenge on the company's foundry equipment. Today, Load Runners® is the world's leading idler-roller and rail solution for precise guidance of heavy loads in harsh environments, used in numerous industries. Load Runners® tolerate both high radial and thrust loads and are maintenance-free. They help reduce your design time and lower overall material handling system costs. Find more information and CAD-drawings/models for easy incorporation into your designs on:

www.loadrunners.com



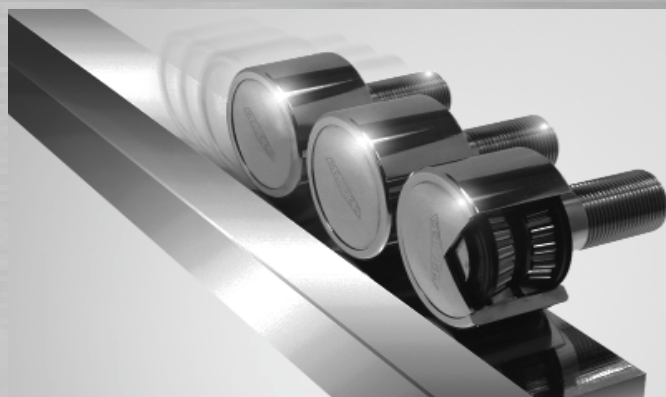
Ready to Roll... Anywhere!

Osborn Load Runners idler-rollers are specially designed to tolerate both radial and thrust loads for heavy-duty applications. With tapered roller bearings or deep-groove ball bearings, these prefabricated rollers are engineered for convenience.

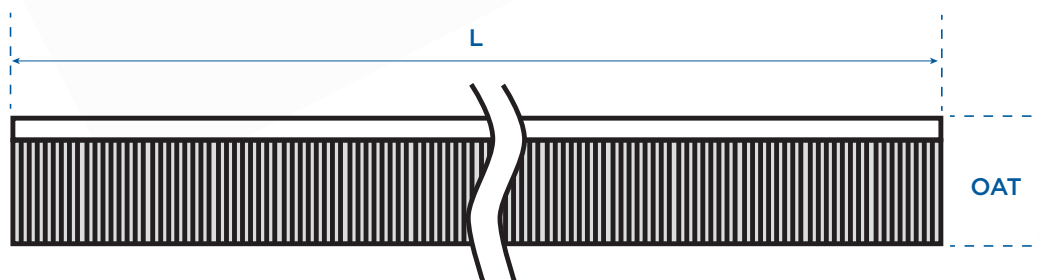
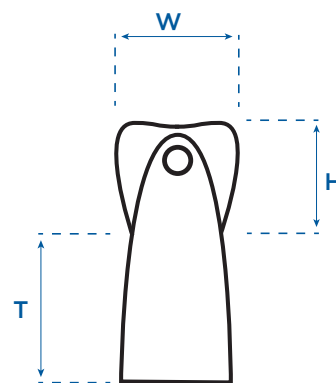
Along with Osborn Load Rails, precut and drilled to your specifications, Load Runners are the complete solution for linear motion control.

Tapered bearings for thrust load tolerance are sealed to keep out contaminants. Sizes from 1/2" to 10".

Modifications include relube provision, high temp grease & seals, non-metallic tread.



PRODUCT INQUIRY FORM WELLBORE MAINTENANCE BRUSHES



Sender

Company:

Post code:

Name:

City:

Department:

E-Mail:

Street:

Phone/Fax:

Dimensions / Material

Length (L):

Overall trim (OAT):

Height backing tape (H):

Width backing tape (W):

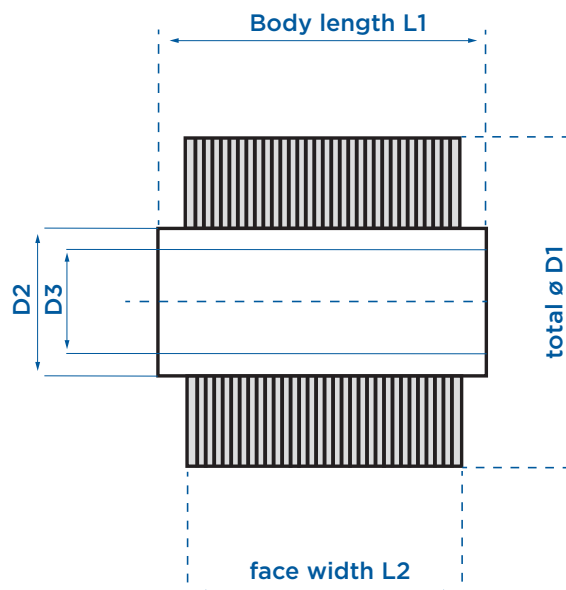
Material (Type of wire / size):

Radius (R):

Notes:

PRODUCT INQUIRY FORM

OIL SKIMMING BRUSHES



Sender

Company:

Post code:

Name:

City:

Department:

E-Mail:

Street:

Phone/Fax:

Dimensions / Material

Body material:

Total dia (tol.) D1:

Fill Material:

Core diameter D2:

Fill colour:

Body length L1:

Fill diameter:

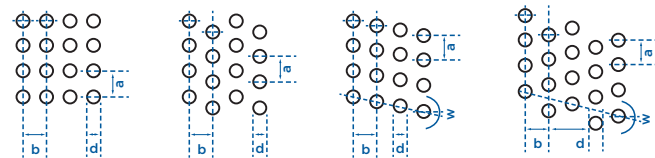
Face width L2:

Bore diameter D3:

RPM:

Chem. resistant against:

Notes:



No. of peripheral rows:

a:

bundles dia. d.:

No of. longitudinal rows:

b:

bundles spiral angle w:

Pipe Manufacturing

The background of the entire page is a dark blue field filled with a pattern of overlapping circles. The circles are outlined in a lighter blue or white, creating a geometric, honeycomb-like structure. The circles vary in size and are positioned such that they overlap significantly, creating a sense of depth and texture.





Roller brushes made on request to remove shot.

Pipe Manufacturing

Osborn is the all-round service provider for all kinds of brushing solutions in the pipe manufacturing and coating industry. Osborn's high-quality, innovative and customized tools, as well as best-in-class customer service, provide the right tools for the right applications in pipe welding, hot zones and pipe coating removal.

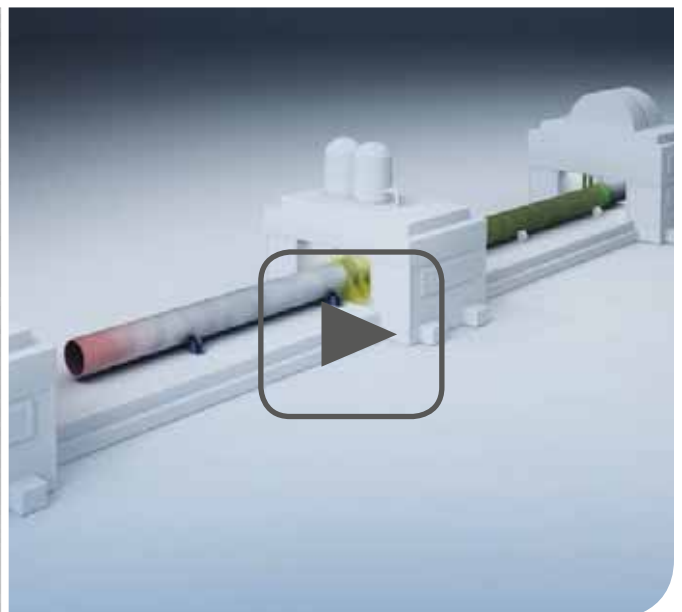
SHOT BLASTING BRUSHES

Osborn offers a wide choice of punch type special brushes to fit in various shot blasting machines. Those products are made to order and will clean sand or grit in industrial sandblasting lines.

www.youtube.com/osbornsolutions

Osborn brushes in the pipe manufacturing process:
Contact brushes, transport rollers and cutback brushes.

View our animation by following the QR-Code to get the full story.





Contact cup brushes in welding head

CONTACT BRUSHES

Contact brushes are used to maintain continuous electric contacts in pipe welding units. Flexible crimped wire brushes ensure a constant electric connection between the welding nozzle and the moving raw steel pipe. Any interruption or incorrect contact will cause welding defects that could be avoided and cost intensive rework on the entire layer along the pipe. Very often such welding defects are not discovered until later after ultrasonic or X-Ray examination.

Cup brushes crimped wire



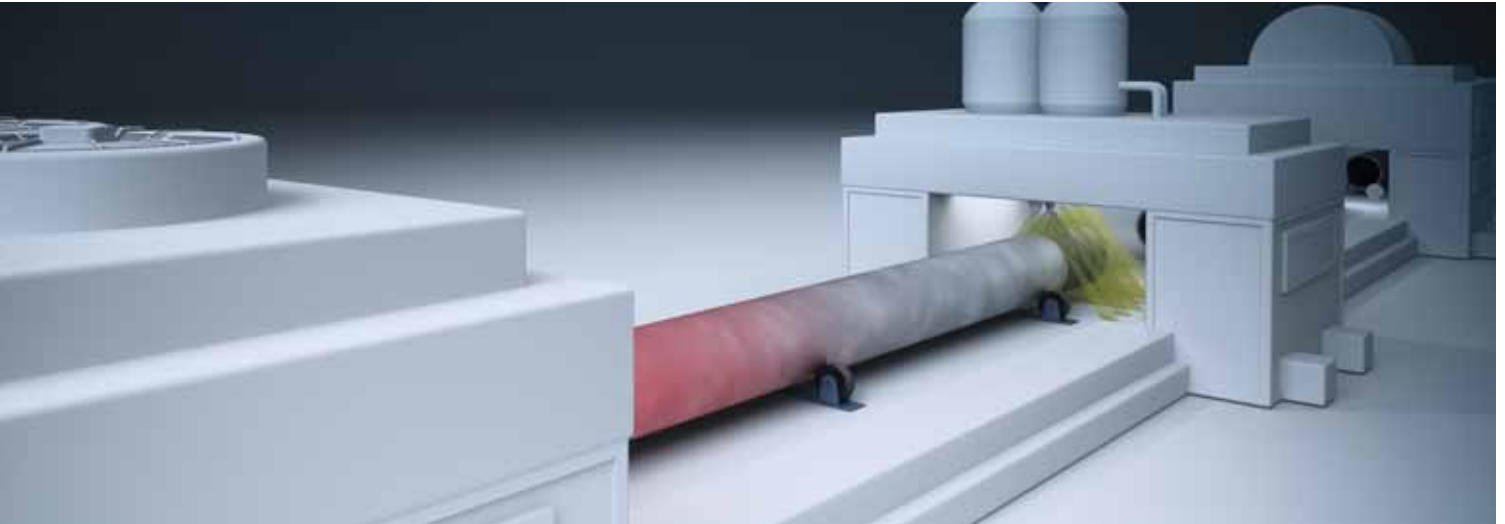
Particularly suitable to ensure continuous electric contact

Dia mm	Dia Inch	carbon steel wire, crimped
60	2 1/2"	available
75	3"	available
80	3"	available
100	4"	available
125	5"	available
150	6"	available

TRANSPORT BRUSHES

Osborn transport brush rollers offer a new and effective technology to the pipe-coating industry. Wire brush rollers are a perfect alternative to polyurethane (PU) rollers commonly used today, particularly in the hot zone areas following the induction heating ovens. When pipes leave the induction

ovens at temperatures as high as approx. 150°C / 300°F, the melting point of polyurethane is relatively low and the rollers are easily damaged, wear is very high and service life, in turn, short.



Pipe leaving induction heating prior to coating process

Osborn brushes are designed to withstand the high temperatures hence service life is several times that of PU rollers. This leads to a drastic reduction in the number of times the brush rollers must be replaced, downtime is reduced respectively the pipe-coating process no longer needs to be stopped as frequently, as when PU rollers are in use. Osborn transport brush rollers have a perfectly trimmed flat surface so there is no risk of damage to the pipes.



Osborn wire brush roller

Did you know?

NAPCA Member



Osborn is an active member in North America's largest Pipe Coating Association NAPCA

www.napca.com

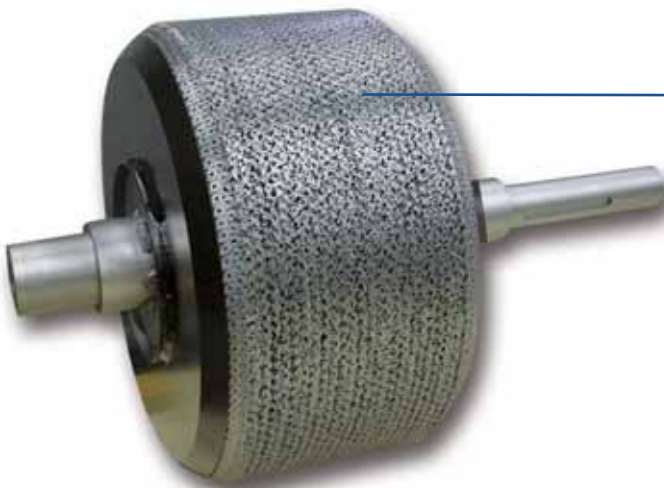
TRANSPORT ROLLERS



Induction heater and wire transport rollers.



Worn out PU rollers due for replacement

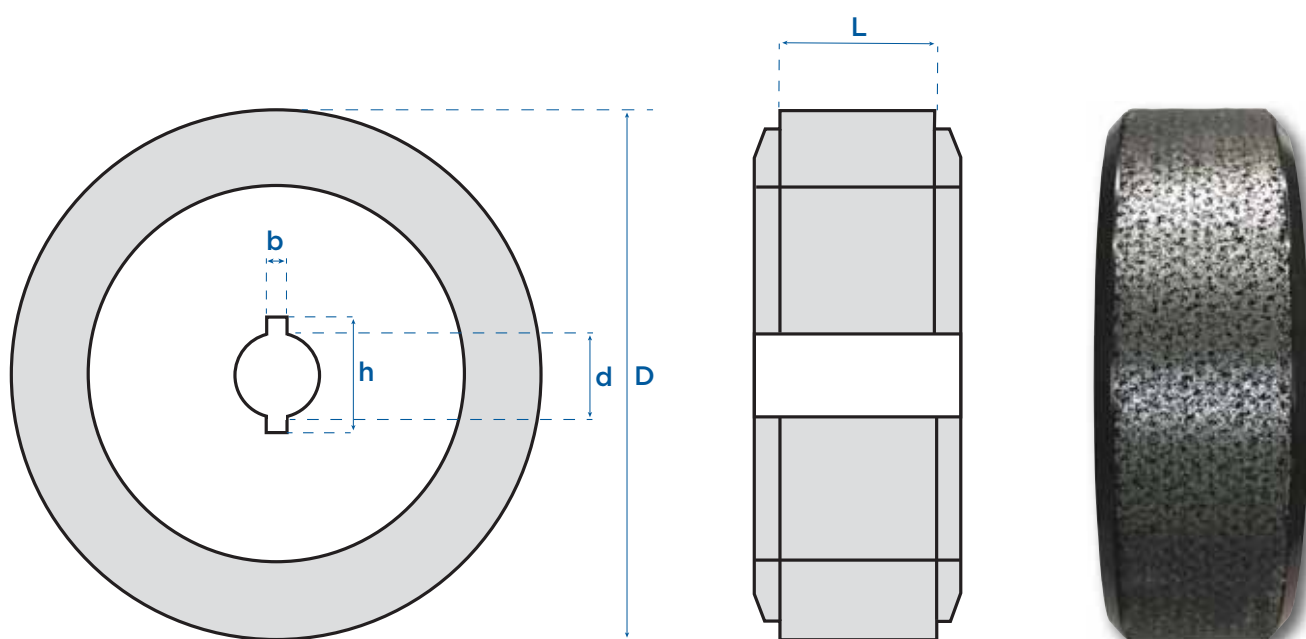


Extra large transport roll for 56" pipe



Surface of brush transport roller.

PRODUCT INQUIRY FORM TRANSPORT ROLLERS



Sender

Company:

Post code::

Name:

City:

Department:

E-Mail:

Street:

Phone/Fax:

Dimensions / Material

Brush dia (D):

Bore dia (d):

Keyway (h):

Keyway width (b):

Face width (L):

CHECKLIST

- What is the diameter (min./max.) of the pipes to be transported?
- What load must the transport brush carry (tons per brush) – or: how heavy is the pipe and how many transport brushes are being used?
- How thick is the wall of the pipe?

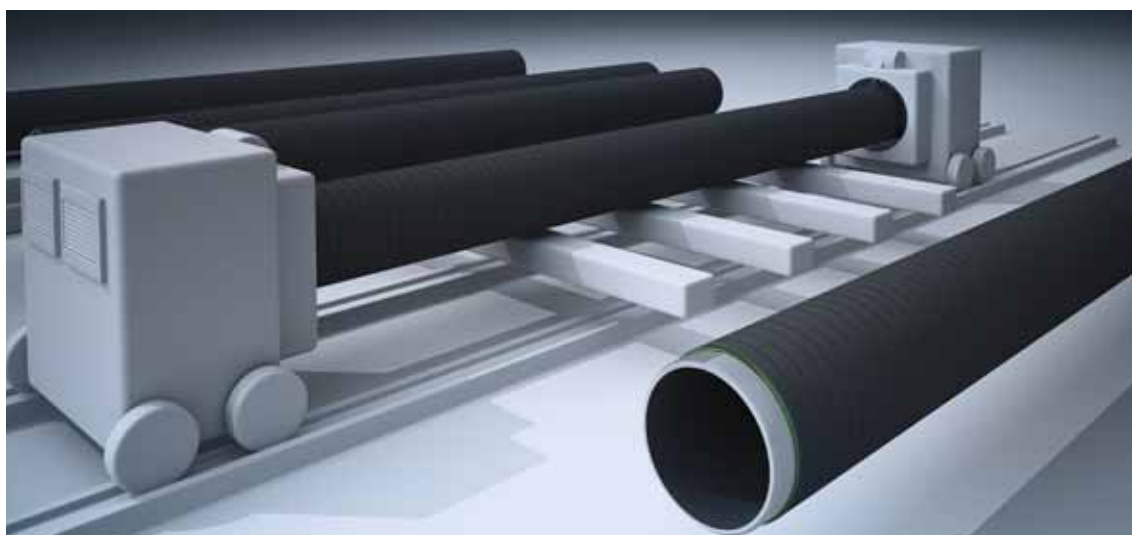
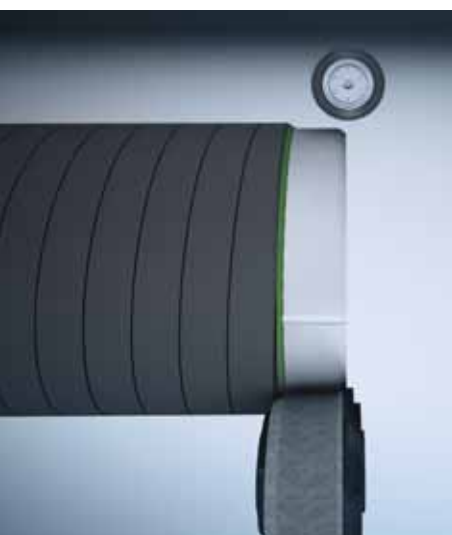


Dynamic balancing machine

CUTBACK BRUSHES

The Osborn Cutback-brush-system is used worldwide to remove coating at the end of the pipes, independent of whether the coating is high (HD), medium (MD) or low density (LD), polyethylene (PE) or polypropylene (PPN). The Cutback-brush-system performs three operations in one. The pipe ends are cleaned, coating is removed and an angle created on the edge of the remaining coating. Plastic bonded (PB) wheels on both sides of the brush are responsible for the bevelling operation on the

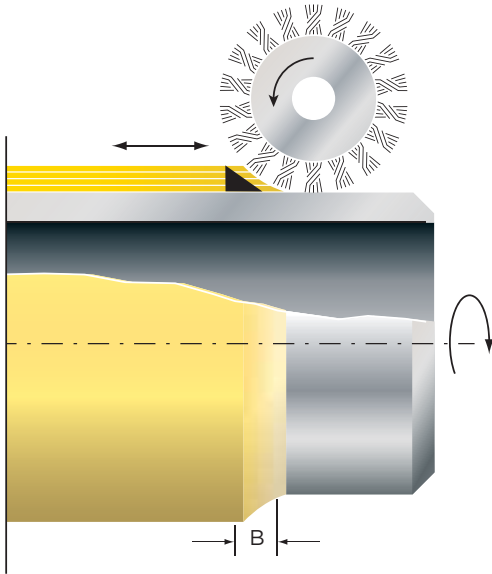
coating and cleaning the ends of the pipe. Costs are kept to a minimum due to the long life of the product and the short processing time. An internal cooling system is a further option to prevent the brushes from becoming clogged and reduce heat build-up. Cutback machine manufacturers offer different brush systems to take off the coating.



Two station cutback

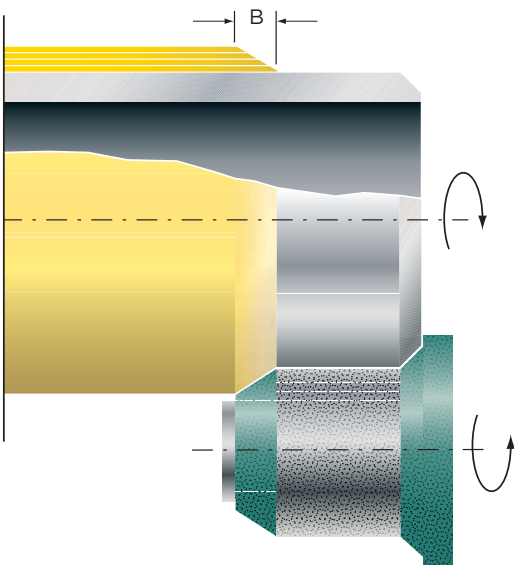
WHEEL BRUSH SYSTEM

Just one twist knot wheel brush is installed on top or below the pipe to peel off the coating. As the pipe rotates, the brush removes the coating. It is important to oscillate the brush since this will speed up the process and extend brush life.



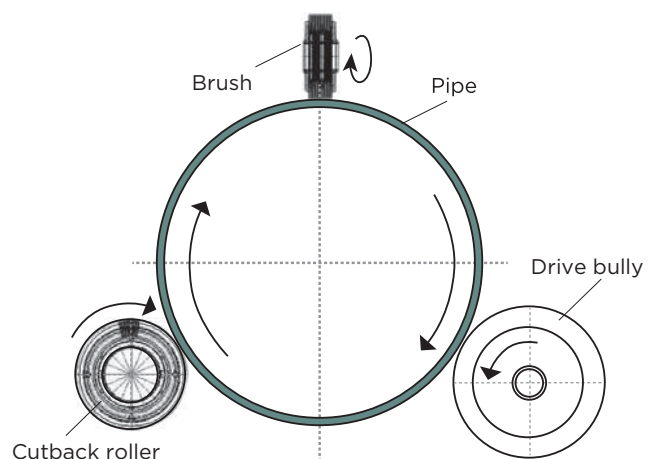
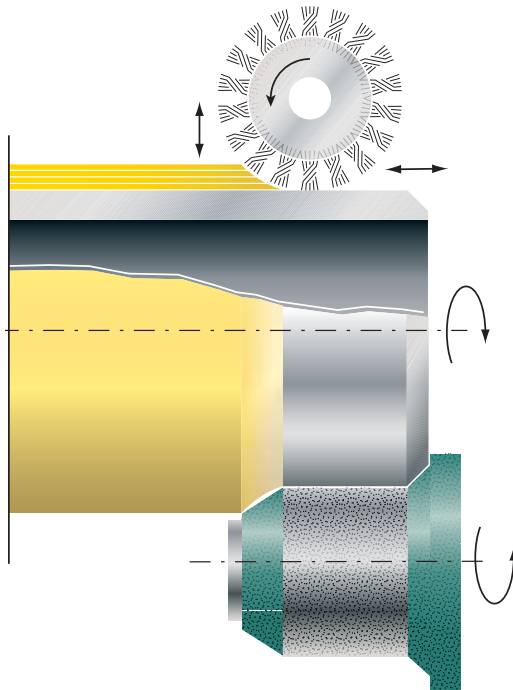
ROLLER BRUSH SYSTEM

A wide face roller brush is positioned parallel to the pipe's central axis and peels off the coating in one operation. As the entire brush face width matches the desired cutback length this operational set-up is considerably more efficient, faster and longer lasting. Bevel cutting (B) cutback and edge cleaning are carried out in one step only.



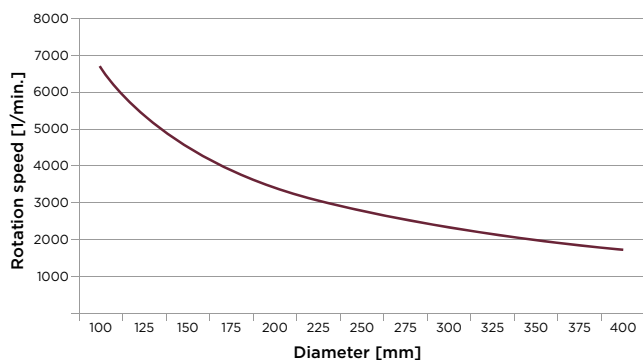
TWO STATION

One wide face roller brush positioned parallel to the pipe axis and additional support brushes are the most efficient machinery set-up. Cutback brush times can be reduced to a minimum. As the support brush is positioned at 90° displaced bevel to the pipe axis the cleaning performance increases considerably and leads to the shortest possible process times.



Two station brush system

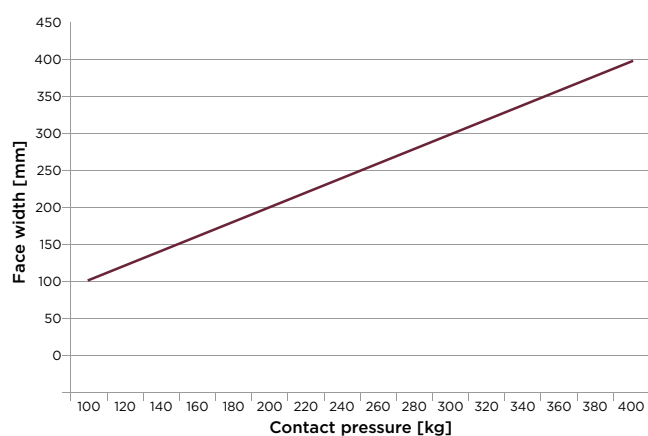
WORKING SPEED



Surface speed [35 m/s]	Diameter [mm]	Rotation speed [1/min.]
35	200	3350
35	250	2675
35	300	2230
35	350	1910
35	375	1720
35	400	1670
35	425	1575

Surface speed recommendation: 35 m/sec

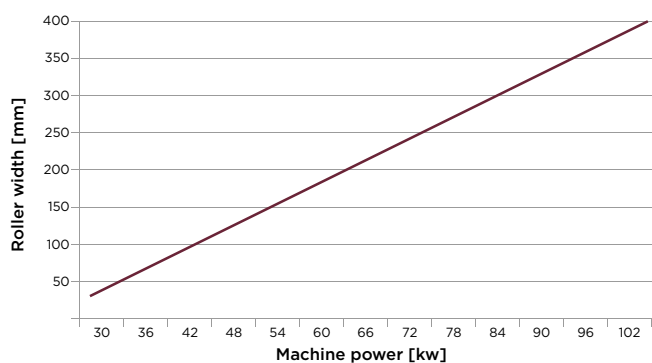
CONTACT PRESSURE



Face width [mm]	Contact pressure [kg]	Contact pressure [N]
100	100	981
120	120	1177,2
140	140	1373,4
160	160	1569,6
180	180	1765,8
200	200	1962

Based on a brush dia. 390 / 114 knotts

MACHINE POWER



Roller width [mm]	Machine power [kw]
100	30
110	33
120	36
130	39
140	42
150	45
160	48
170	51
180	54
190	57
200	60



Facts

- **Working speed**
1.800 – 2.200 RPM / 35 – 45 meters / second
- **Contact pressure**
1 kg per mm of brush face, e.g.
150 mm face width = approx. 150 kgs contact pressure recommended
Based on a brush dia. 390 / 114 knotts
- **Machine power**
2,4-3,0 kw per 10 mm brush contact area



READY-TO-USE CUTBACK BRUSH

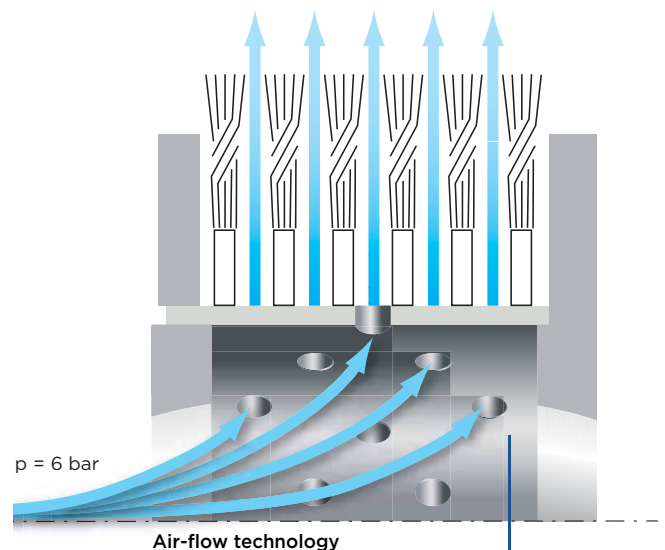
Osborn offers ready-to-use roller brushes which are preassembled and dynamically balanced. The brush is designed according to the required cutback length and can carry out three work steps in one operation:

- 1.) apply a defined bevel on the coating
- 2.) take off the coating in a defined area and
- 3.) clean the pipe end

A slightly oversized brush section at the end of the Cutback brush can work as a bumper and stop the pipe whilst it is driven into the cutback station.

AIR COOLING SYSTEM

Cutback brushes are available with an additional air cooling system. The brush core (also available for refill systems) is prepared to support air cooling systems which can be installed easily on almost every existing Cutback equipment. A compressor with 5-6 bar and a pneumatic tube can pump enough air directly into the brush center. This reduces the work temperature considerably and allows work at higher speeds and with more contact pressure, resulting in much shorter process times. Increase your capacity output by taking advantage of this feature!



Cooling bores in the brush core



Pipeline construction site



Two station brush cutback system



Clockwise/ anti-clockwise knotted brush section

REFILL BRUSH SYSTEM

Osborn offers a wide choice of refill brushes for self-assembly at the customer's site. Single section brushes are available from 200 – 465 mm diameter with various fill densities, arbor holes and wire types. The brush core (available on request) can be reused and refilled several times.

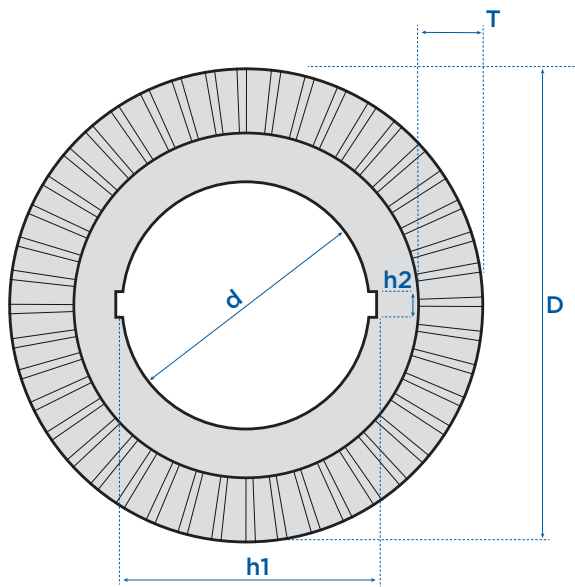
A hydraulic 50 ton press and balancing equipment must be available on site to assemble single brush sections to the final roller brush. The Osborn refill brush system reduces process costs as the brush core can be reused. This cutback system offers a high level of flexibility because the customer can define the width of the brush.

Brush Section for Refill system Cutback



Dia mm	Dia Inch	steel 0,50 mm / 0,20"	steel 0,60 mm / 0,25"	steel 0,80 mm / 0,35"	steel 1,0 mm / 0,40"	stainless steel
200 mm	8"	available	available	available	on request	on request
250 mm	10"	available	available	available	on request	on request
300 mm	12"	available	available	available	on request	on request
390 mm	15 1/4"	available	available	available	on request	on request
405 mm	16"	available	available	available	on request	on request
420 mm	16 1/2"	available	available	available	on request	on request

PRODUCT INQUIRY FORM REFILL BRUSHES



Sender

Company:

Name:

Department:

Street:

Post code:

City:

E-Mail:

Phone/Fax:

Dimensions / Material

Brush dia (D):

Wire dia:

Bore dia (d):

Wire type:

Keyways (h1, h2):

Quantity of knots:

CHECKLIST

- What is the diameter (min./max.) of the pipes?
- At what speed does the pipe rotate (RPM)?
- At what speed does the brush rotate (RPM)?
- How much pressure does the brush apply to the pipe?
- What is the capacity of the motor driving the brush?
- How many Cutback brushes are to be used?
- Is there an internal cooling system?

Weld Cleaning





osborn

Weld Cleaning

Osborn products are unsurpassed in value and service life. Using Osborn brushes in pipeline construction for weld cleaning has a lower thermal impact on pipe surfaces as well as significant overall quality benefits including lowering the chances of corrosion, grooving and micro fissures.

WELDING TECHNOLOGY

Testing that compared the use of typical abrasives to Osborn brushes for cleaning welds, found that the micro surfaces of the welds cleaned with Osborn brushes were virtually identical to the original surfaces and kept the material's structure intact. The testing also found that

welds treated with Osborn brushes allowed carbon to settle in a magnetite layer during the dissolution process, which boosted the surface's protective properties, slowing further dissolution.



Manual testing in one of the Osborn labs

Osborn is a driving force in product testing and is therefore able to create innovative solutions providing the best values. Constant improvement has created products that are specifically tailored to work better on harder and lighter-weight steel pipe. Osborn's disc-center brushes have been improved to meet the high demands of X 100 and X 120 steel pipe. The brushes are designed with hardened, tempered wire and high-Rockwell hardness, making them ideal for removing silicates.

Did you know?

IPLOCA MEMBER

IPLOCA is the key association of the world's major international onshore and offshore contractors with some 240 Regular Members and Associate Members. It was founded in 1966. IPLOCA's mission is to provide value to members through a forum for sharing ideas, engaging the industry and its stakeholders, facilitating business opportunities and promoting the highest standards in the pipeline industry. Osborn is a longtime associate member and frequently takes part in IPLOCA meetings.

www.iploca.com



BRUSH DIAMETER AND WALL THICKNESS RECOMMENDATION



Grinder		brush Ø		wall thickness
4"	100	4"	100	10 mm
4 1/2"	115	4 1/2"	115	15 mm
5"	125	5"	125	15 mm
6"	150	6"	150	20 mm
7"	180	6 1/2"	165	15 mm
7"	180	6 1/4"	171	20 mm
7"	180	7"	178	25 mm
9"	230	9"	230	35 mm

SPARK EMITTANCE

When working in a cramped space like a tent on a pipeline construction site or on board a pipe laying ship, sparks are a serious safety issue, particularly when several people are working together. Brushes produce more than 95% fewer sparks, than abrasive discs.



Wire brush, almost spark free

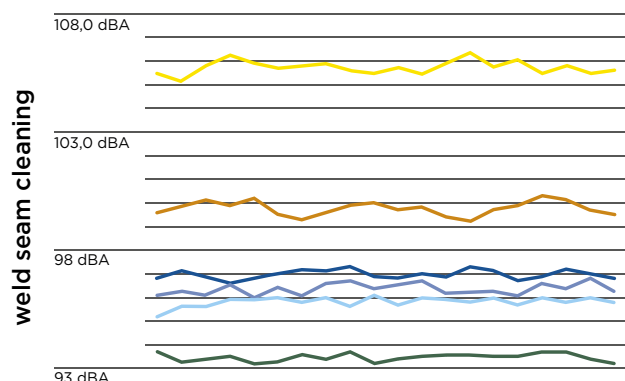


Grinding disc, high spark emittance

MATERIAL SENSITIVITY

Wire brushes are nonstock removing tools. They remove all kinds of debris like slag, silicates or oxide layers, leaving the original surface completely intact. This saves both time and cost!

NOISE COMPARISON

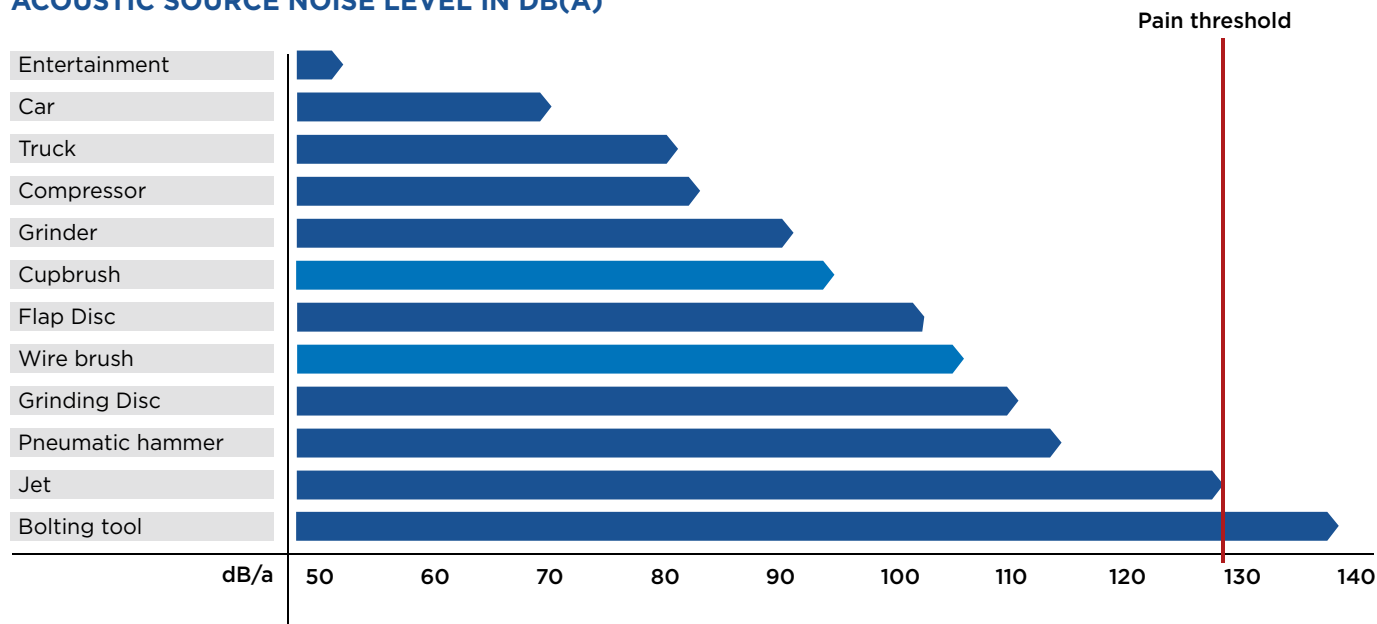


- Cup brush 60 mm
- Disc Center 115x12 knotted steel wire
- Disc Center 115x6 knotted steel wire
- Grinding Disc 125x6
- Flap disc 125
- Grinder without tool



According to studies Wire brushes are in comparison to grinding tools approx 6-8 dB/a less noisy - this is a significant reduction and an important improvement in work safety. A 3 dB/a increase (or decrease) means that the intensity of a sound is doubled (or divided in half).

ACOUSTIC SOURCE NOISE LEVEL IN DB(A)



WORK SAFETY

Osborn's priority is to make the usage of our products safe. Especially in a world where more and more products come from dubious sources, it is important to focus on quality and safety. Osborn has succeeded in certifying more than 650 Osborn brushes from European Production by TÜV-SÜD and we continue to work on this.

OSBORN: OFFICIALLY GOOD!

A TÜV seal means "tested without compromise" and indicates quality at the first glance. Osborn is the only manufacturer in its sector to obtain this certification. This sets Osborn clearly apart from its competitors. A resounding commitment for the consumer.



Cup brush 65 mm (2 1/2")





METER PERFORMANCE

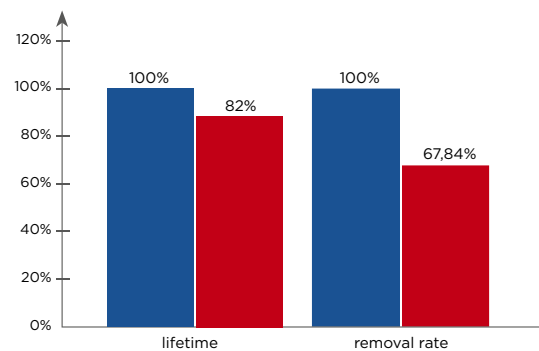
Our products are frequently tested in our own laboratories. Several state of the art robot cells perform tests on service-life and meters brushed.

PERFORMANCE TESTING AND COMPARISON

Quality standard, design, material and meter performance are not the only tests our high-quality brushes continuously undergo on the test bench.

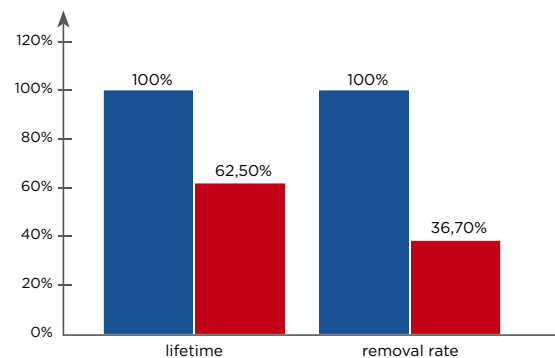
We repeatedly test to ensure that our tools also meet all performance and design criteria.

PERFORMANCE TEST DISC CENTER WHEEL BRUSH Ø 115 X 12 MM



Test results for Osborn knotted wire wheel brush.

PERFORMANCE TEST CUP BRUSH KNOTTED Ø 65MM



Test results for Osborn knotted wire cup brushes.

Lifetime
Removal Rate

■ Osborn brushes
■ other manufacturer



Wheel brushes for weld seam cleaning

knotted Osborn wire



For Hot-Pass, Fill & Cup layers						Silicate Blue colour	Silicate Slag	Silicate Slag	Silicate Blue colour	Silicate Blue colour
Dia mm	Dia Inch	Face mm	Face Inch	Grinder size	wall thickness up to >	steel 0,35 / 0,014"	steel 0,50 / 0,20"	steel 0,80 / 0,35"	1.4301 / AISI 304	1.4401 / AISI 316
100	4"	6	1/4"	100 mm / 4"	10 mm	available	available	available	available	on request
100	4"	13	1/2"	100 mm / 4"	10 mm	available	available	available	available	on request
115	4 1/2"	6	1/4"	115 mm / 4 1/2"	15 mm	available	available	available	available	on request
115	4 1/2"	13	1/2"	115 mm / 4 1/2"	15 mm	available	available	available	available	on request
125	5"	6	1/4"	125 mm / 5"	15 mm	available	available	available	available	on request
125	5"	13	1/2"	125 mm / 5"	15 mm	available	available	available	available	on request
150	6"	6	1/4"	150 mm / 6"	20 mm	available	available	available	available	on request
150	6"	13	1/2"	150 mm / 6"	20 mm	available	available	available	available	on request
165	6 1/2"	6	1/4"	180 mm / 7"	15 mm	available	available	available	available	on request
171	6 3/4"	6	1/4"	180 mm / 7"	15 mm	available	available	available	available	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	available	available	available	available	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	available	available	available	available	on request
178	7"	13	1/2"	180 mm / 7"	25 mm	available	available	available	available	on request
230	9"	6	1/4"	230 mm / 9"	35 mm	available	available	available	on request	on request
230	9"	13	1/2"	230 mm / 9"	35 mm	available	available	available	on request	on request

Safety wheel brushes for weld seam cleaning high performance

knotted Osborn wire, plastic bonded, regular shape

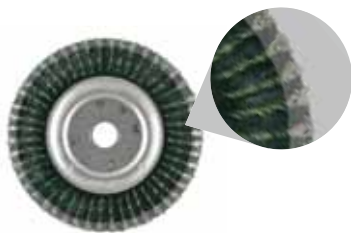
+20% more service life




For Root & Hot-Pass cleaning						Silicate Blue colour	Silicate Blue colour	Silicate Blue colour
Dia mm	Dia Inch	Face mm	Face Inch	Grinder	wall thickness up to >	steel 0,38 / 0,014"	1.4301 / AISI 304	1.4401 / AISI 316
150	6"	6	1/4"	150 mm / 6"	20 mm	available	on request	on request
178	7"	4	1/6"	180 mm / 7"	25 mm	available	on request	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	available	on request	on request

Safety wheel brushes: Plastic bonded for Hot-Pass cleaning knotted steel wire pointed model	+20% more service life
--	------------------------

+20% more service life



For Root & Hot-Pass layers


<div></div> <div>For Root & Hot-Pass layers</div>						Silicate	Silicate	Silicate	Silicate
						Slag	Slag		
						Dia mm	Dia Inch	Face mm	Face Inch
100	4"	6	1/4"	100 mm / 4"	10 mm	on request	available	on request	on request
125	5"	6	1/4"	125 mm / 5"	15 mm	on request	available	on request	on request
178	7"	6	1/4"	180 mm / 7"	25 mm	on request	available	on request	on request

**Safety wheel brushes: Plastic bonded, regular for fill layer cleaning
crimped steelwire**

crimped steelwire



For Root & Hot-Pass layers

 For Root & Hot-Pass layers						Silicate	Silicate	Silicate	Silicate
						Slag	Slag		
						steel 0,35 / 0,014"	steel 0,50 / 0,20"	1.4301 / AISI 304	1.4401 / AISI 316
Dia mm	Dia Inch	Face mm	Face Inch	Grinder size	wall thickness up to >				
100	4"	6	¼"	100 mm / 4"	10 mm	on request	available	on request	on request
125	5"	6	¼"	125 mm / 5"	15 mm	on request	available	on request	on request
178	7"	6	¼"	180 mm / 7"	25 mm	on request	available	on request	on request

Abrasive flap discs



Grit size determined by application

Trim and material

	40	60	80	120
rough grinding	■	■	■	■
deburring	■	■	■	■
spatter	■	■	■	■
smoothing weld seams	■	■	■	■
super finishing	■	■	■	■

Products available with:

Circonia alumin

	Steel	stainless
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
14	100	100
15	100	100
16	100	100
17	100	100
18	100	100
19	100	100
20	100	100
21	100	100
22	100	100
23	100	100
24	100	100
25	100	100
26	100	100
27	100	100
28	100	100
29	100	100
30	100	100
31	100	100
32	100	100
33	100	100
34	100	100
35	100	100
36	100	100
37	100	100
38	100	100
39	100	100
40	100	100
41	100	100
42	100	100
43	100	100
44	100	100
45	100	100
46	100	100
47	100	100
48	100	100
49	100	100
50	100	100
51	100	100
52	100	100
53	100	100
54	100	100
55	100	100
56	100	100
57	100	100
58	100	100
59	100	100
60	100	100
61	100	100
62	100	100
63	100	100
64	100	100
65	100	100
66	100	100
67	100	100
68	100	100
69	100	100
70	100	100
71	100	100
72	100	100
73	100	100
74	100	100
75	100	100
76	100	100
77	100	100
78	100	100
79	100	100
80	100	100
81	100	100
82	100	100
83	100	100
84	100	100
85	100	100
86	100	100
87	100	100
88	100	100
89	100	100
90	100	100
91	100	100
92	100	100
93	100	100
94	100	100
95	100	100
96	100	100
97	100	100
98	100	100
99	100	100
100	100	100

Dia mm	Dia Inch	model	Grinder	application	grit 40	grit 60	grit 80	grit 120
115	4 1/2"	12° beveled	115 mm / 4 1/2"	edge, corner	available	available	available	on request
115	4 1/4"	0° flat	115 mm / 4 1/2"	surface	available	available	available	on request
125	5"	12° beveled	125 mm / 5"	edge, corner	available	available	available	on request
125	5"	0° flat	125 mm / 5"	surface	available	available	available	on request
178	7"	12° beveled	180 mm / 7"	edge, corner	available	available	available	on request
178	7"	0° flat	180 mm / 7"	surface	available	available	available	on request

Cutting Disc



Dia mm	Dia Inch	Model	Grinder size	Application	Circonia	Aluminium Oxide
115	4 1/2"	depressed	115 mm / 4 1/2"	Cutting	available	available
125	5"	depressed	125 mm / 5"	Cutting	available	available
178	7"	depressed	180 mm / 7"	Cutting	available	available
230	9"	depressed	230 mm / 9"	Grinding	available	available

Grinding Disc



Dia mm	Dia Inch	Model	Grinder size	Application	Circonia	Aluminium Oxide
115	4 1/2"	depressed	125 mm / 5"	Grinding	available	available
125	5"	depressed	180 mm / 7"	Grinding	available	available
178	7"	depressed	115 mm / 4 1/2"	Grinding	available	available
230	9"	depressed	125 mm / 5"	Grinding	available	available

Cup brushes
knotted wire

Wire dia determined by application

	roughening	planing	deburring	edge honing	structuring	descaling/paint stripping	weld seams
	□□□□	■□□□	■□□□	■□□□	□□□□	■□□□	■□□□

Trim and material

Products available with:

	Steel	Stainless steel
Steel wire twist knot	■	□
Stainless steel	■	■

Dia mm	Dia Inch	Grinder size	carbon steel wire, knotted	1.4301 / AISI 304	1.4401 / AISI 316
65	2 1/2"	100-125 mm / 4-5"	available	available	on request
75	3"	100-125 mm / 4-5"	available	available	on request
80	3"	150 mm / 6"	available	available	on request
100	4"	180 mm / 7"	available	available	on request
120	5"	230 mm / 9"	available	available	on request

Pigging





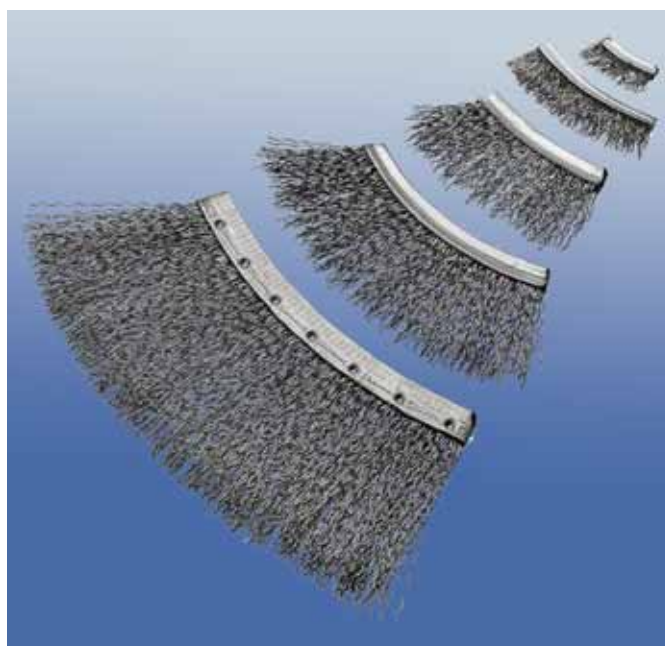
osborn

Pigging

To assist in the cleaning and inspection of pipelines Osborn has a wide variety of capabilities to equip cleaning and inspection pigs with the right materials. Whether you need to clean off rust, wax, oxides, organic residue or sand, we have the right solution at hand. Arc brushes, straight strip brushes, coils or open pitch helical brushes etc. are available in different configurations and sizes.

BRUSHES FOR CLEANING PIGS

Crimped wire is generally used in the cleaning of the pipe due to the aggressive nature of the crimp. Also crimped brushes allow good flow for all liquids. This combination makes it the perfect product to clean your Pipeline. No matter what your specific requirements are, we are happy to support you. Please contact Osborn for further inquiries.

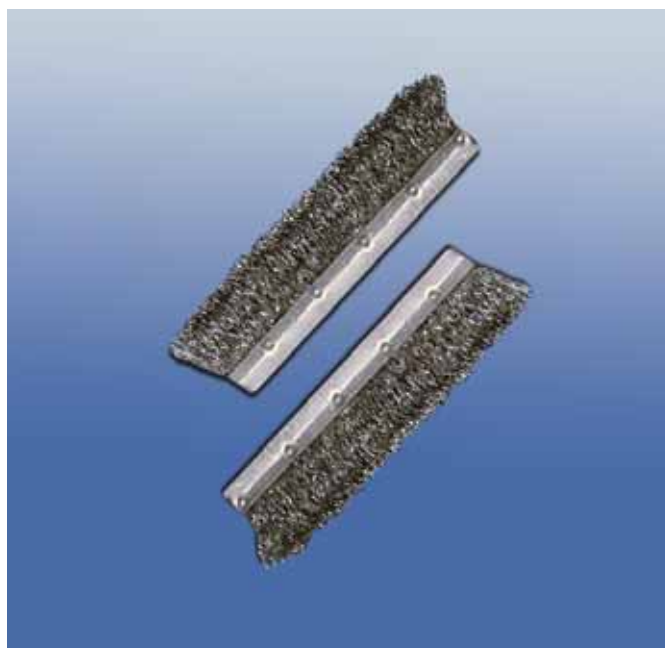


Did you know?

PPSA MEMBER

The Pigging Products and Services Association (PPSA) is an international trade organization servicing the pipeline industry, founded in 1990. It has over 100 members from all over the world representing the pigging industry. It has set its goal "to promote the knowledge of pigging and its related products and services by providing a channel of communication between the members themselves and with users and other interested parties". Osborn is an associate member of the organization and frequently takes part in events and exhibitions.

www.ppsa-online.com



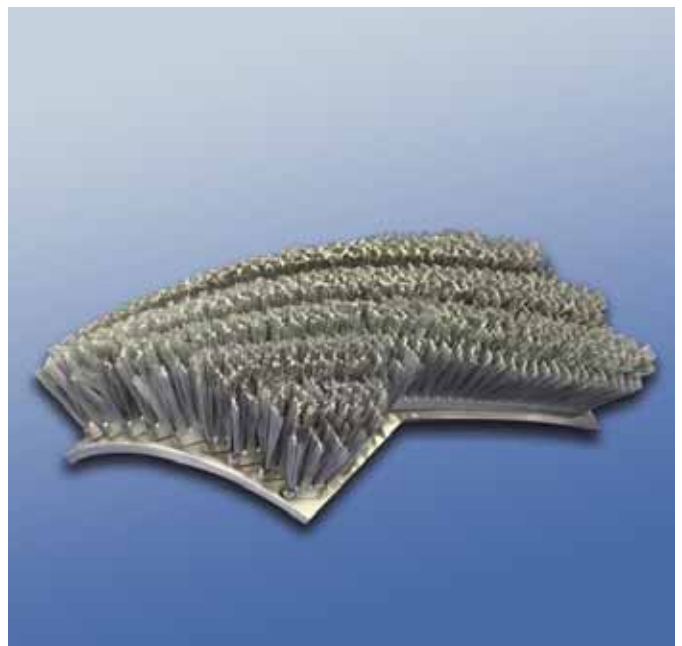
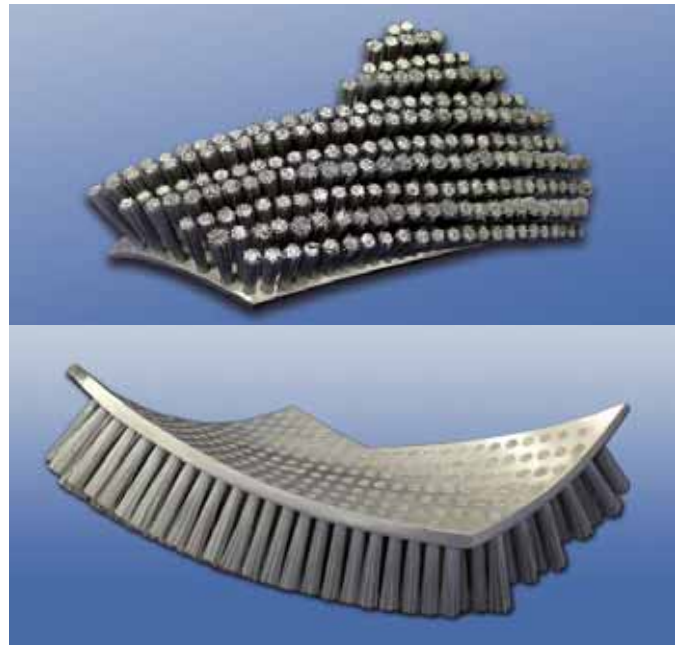
Crimped wire brushes

BRUSHES FOR MFL INSPECTION TOOLS

Osborn is also used in the MFL inspection market of the pipeline sector. Osborn currently offers various sizes of pencil brushes in configurations to meet your needs. With Osborn MFL inspection brushes there are choices that fit your budget. Osborn does not only offer the highly detailed pencil brush, but offers a lower cost straight strip wire configuration as well.

Straight crimped wire strip brushes can be run in very long lengths and in trim heights up to 7". This allows for much more flexibility.

Pencil brushes can be made to fit into numerous configurations and have a consistency of density that you would find hard to believe.



Special brushes for MFL pigging and general cleaning applications

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Top-quality machine and special brushes for industrial applications

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Abrasive nylon brushes with premium abrasives such as diamond, zircon, aluminium oxide, etc.

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www.osborn.com/en-de/support/literature.html

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Solutions for rolling mills and conveyor systems



Brushes, equipment and systems and Non-woven rollers for degreasing, washing, cleaning, activating or descaling metal strip. Transport roller systems for roller hearth furnaces, high-temperature areas and for noise reduction.

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