

A full-page photograph of a worker in a white t-shirt, black helmet with a headlamp, and safety harness. The worker is leaning over the edge of a white wind turbine blade, using a blaster tool. The background shows a dark sea and a cloudy sky with other wind turbines in the distance.

MONTI

YOUR SURFACE – OUR PASSION

BRISTLE BLASTER®

CONTENTS

Blasting without grit	4
Offshore	6
Pipeline	8
Wind Energy	10
Shipbuilding	12
Hydraulic Engineering	14
Steel Constructions	16
Petrochemical	18
Coating Manufacturers	20
Product Advantages	22

YOUR SURFACE – OUR PASSION

Our world is of innovative, sophisticated technologies for surface preparation. Our products are unique and original, always providing a clear added value. We strive to offer the optimal solution to every customer and accept every challenge with heart and soul.

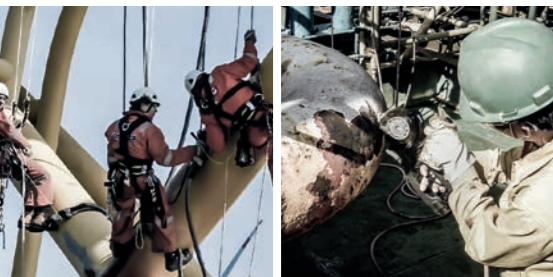
It is our aim to be perceived by all our customers as a trusting and valued partner. At the same time, we continue to be a pioneer in the market – leading with innovative, patented solutions.

The Bristle Blaster® is an innovation in surface preparation. Our patented technology provides the ability to clean surfaces to a Sa 2½ – Sa 3 (SSPC SP-10/NACE No. 2 – SSPC SP-5/NACE No. 1) finish, while generating a roughness up to 120 µm R_z (4.7 mils).

The core feature is our patented accelerator bar. **A** It suspends each separate bristle during rotation and accelerates it to increase the kinetic energy of the bristle tips impacting the surface. The Bristle Blaster® system combines the ability to produce an abrasive blasted finish with the high mobility and flexibility of a portable hand-held tool.

**BLASTING
WITHOUT
GRIT**
BRISTLE BLASTER®





OFFSHORE

As conventional grit blasting, due to environmental or safety regulations, may not be applicable or permitted, the use of the Bristle Blaster® is highly recommended in the offshore sector.

With its light weight (1.1 kg / 2.4 lb) and ATEX approval, the Bristle Blaster® Pneumatic is the ideal solution for maintenance projects on assets such as offshore platforms, floating production vessels, and offshore wind turbine structures.

References

- Muehlhan
- Bilfinger Offshore
- Liebherr
- Bechtel
- DCD Marine
- BP
- Stork Technical Services
- Krebs Gruppe





PIPELINE

The Bristle Blaster® is the only hand-held tool worldwide that is able to create a surface cleanliness comparable to Sa 2½ – Sa 3 (SSPC SP-10 / NACE No. 2 – SSPC SP-5 / NACE No. 1) and a surface roughness profile of up to 120 µm R_z (4.7 mils).

Using the Bristle Blaster®, the need for complex abrasive blast equipment is completely eliminated. Consequently, Bristle Blasting is perfect for weld seam preparation and widely used for pipeline construction, repair, and inspection.

References

- Open Grid Europe
- Pemex
- Janaf
- Nord-West Ölleitung
- Transgaz
- Bohlen & Doyen
- TransCanada
- ConocoPhillips
- NIS Gazprom
- YPFB





WIND ENERGY

The Bristle Blaster® is the ideal surface preparation technology and the only feasible solution for maintenance in confined and hard-to-reach areas, where traditional blasting methods are not possible.

Incorporating specially designed accessories including the remote access grip, ensuring a secure carabiner connection, and the Quick Add® adaptor hub assembly, allowing a fast change of Bristle Blaster® belts without additional tools. The Bristle Blaster® is ideally suited for portable and rope access projects. Typical applications include spot repair and maintenance on weld seams as well as repairs of transport and handling damages prior to on-site assembly.

References

- Vestas
- Senvion
- Ambau
- Enercon
- Dong Energy
- Siemens Wind Power
- EnBW Wind
- RWE
- GE
- Areva



SHIPBUILDING

In shipbuilding, the Bristle Blaster® technology has been proven as a perfect solution for weld seam preparation, ideally suited for areas where the use of conventional blast equipment is not possible, such as ballast water tanks.

Following the welding of interior ship hull areas, these areas have to be cleaned and profiled. Using the Bristle Blaster®, the required quality in terms of cleanliness and anchor profile can be achieved.

Bristle Blaster® is an ABS Type Approved product.

References

- Nobiskrug
- Blohm & Voss
- Scandlines
- Mayerwerft
- Damen Shipyards
- US Coast Guard
- US Navy
- Bourbon
- ThyssenKrupp Marine Systems
- Lürssen





HYDRAULIC ENGINEERING

Hydraulic engineering constructions are prone to abrasion and corrosion. Therefore, an effective and economic way for maintenance and preservation is required.

The Bristle Blaster® can be set up nearly everywhere and is often used for spot repair and maintenance applications in harbor and steel hydraulic structures, including flood gates, weirs, and sheet pilings.

References

- Hamburg Port Authority
- German Federal Waterways and Shipping Administration (WSV)
- US Army Corps of Engineers
- Société Électrique de l'Our
- Schluchseewerk AG





STEEL CONSTRUCTIONS

Bristle Blasting has proven itself as a cost-efficient and economic method for maintenance and restoration projects on bridges, power plants, and other steel constructions.

The Bristle Blaster® achieves the same results in terms of surface cleanliness and roughness as conventional blasting processes. This surface preparation method is especially competitive for spot repairs and smaller areas.

References

- E.ON
- Siemens
- EDF
- EnBW
- SEO
- ALSTOM
- MAN Energy
- TBS Farnsworth
- Hannover City





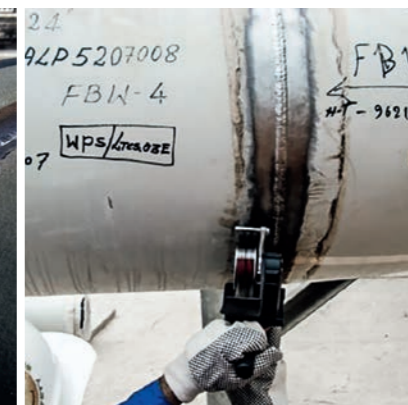
PETROCHEMICAL

The Bristle Blaster® Pneumatic is an ATEX approved (Ex II 2G c IIA T4 X) system and therefore can be safely used in Zone 1 applications. A uniquely suited technology for maintenance works and inspections in oil, gas, and petrochemical plants such as refineries, pump stations, or tanks.

The fact that no hazardous materials are produced and limited dust is exposed, eliminates the need for containment, recycling, or disposal of grit.

References

- ExxonMobil
- BASF
- Bayer Chemie
- DOW Chemical
- Wacker Chemie
- Saudi Aramco
- Petro China
- Total
- BP
- Shell
- Qatargas
- Saipem
- OMV



COATING MANUFACTURERS

Numerous coating manufacturers around the world have approved and specified the Bristle Blasting process as a surface preparation method for their industrial coatings and recommend our technology.

Where other blasting processes would not be applicable, not be permitted, or prohibitive, only the Bristle Blaster® can achieve comparable results in terms of surface cleanliness and roughness.

References

- Akzo Nobel
- Hempel
- Jotun
- PPG
- Sika
- Berry Plastics
- Denso
- Kebulin
- Henkel
- Geholit & Wiemer
- CarboLine



PRODUCT ADVANTAGES

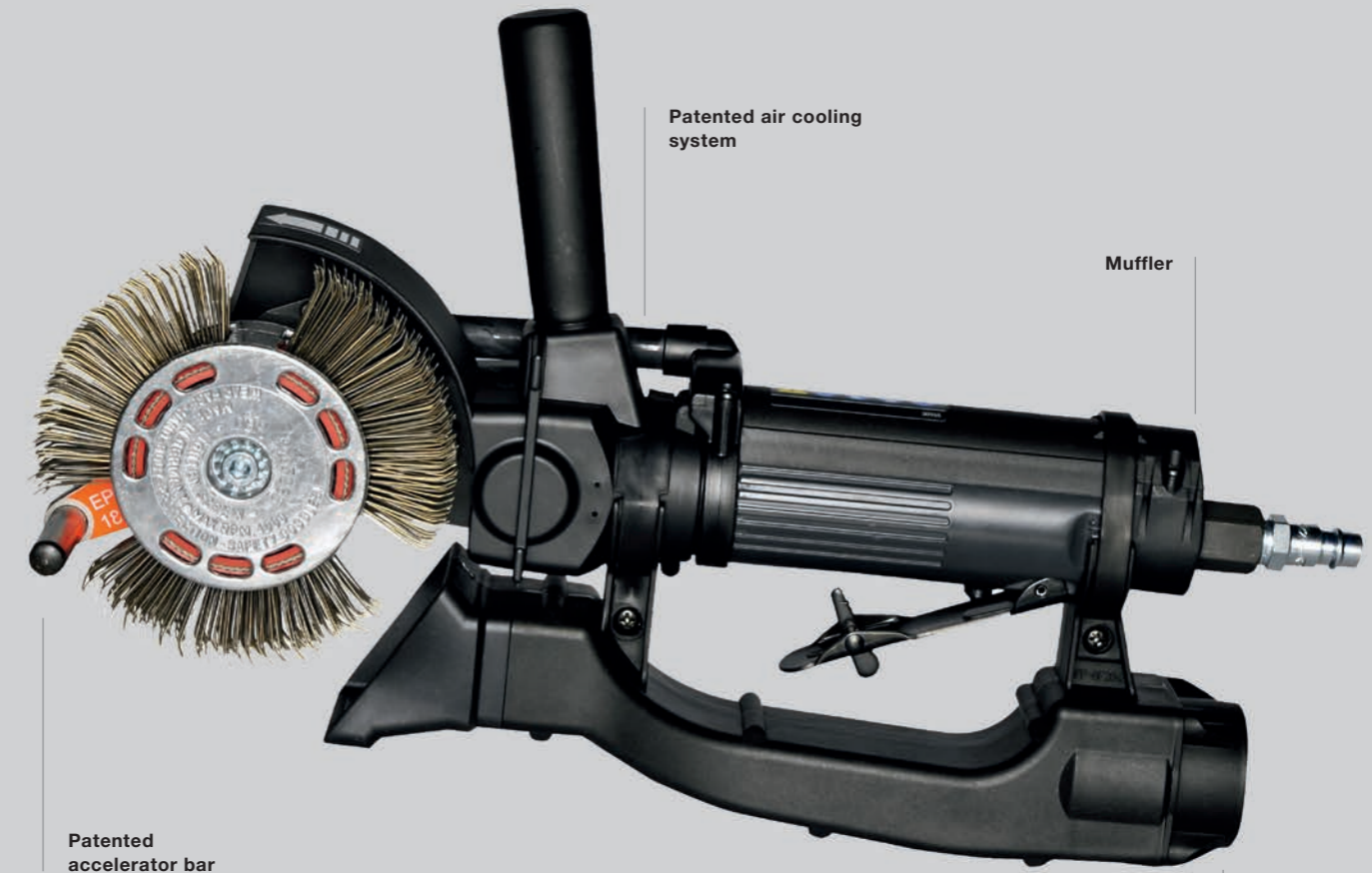
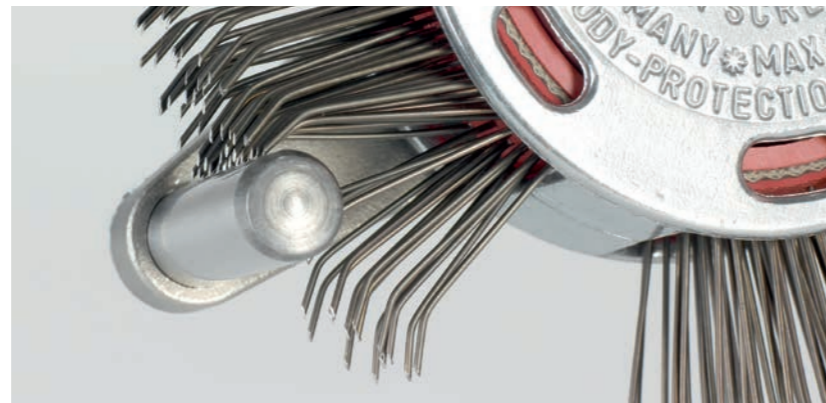
The patented Bristle Blaster® technology has the ability to quickly remove corrosion and coatings even from pitted surfaces. Simultaneously, the Bristle Blaster® generates a surface cleanliness comparable to Sa 2½–Sa 3 (SSPC SP-10/NACE No.2–SSPC SP-5/NACE No. 1) and a surface roughness profile of up to 120 µm R_z (4.7 mils).

The Bristle Blaster® Pneumatic is ATEX certified and approved for the use in zone 1 (Ex II 2G c IIA T4 X). A fast, flexible, and economical application coupled with environmentally friendly and safer in-service use, makes the Bristle Blaster® an indispensable surface preparation system for spot repairs, touch-up jobs, and weld seam preparation.



- Corrosion, mill scale and coating removal
- Surface cleanliness equivalent to Sa 2½–Sa 3 (SSPC SP-10/NACE No.2–SSPC SP-5/NACE No. 1)
- Anchor profile up to 120 µm (4.7 mil) ATEX approved for use in zone 1
- (Bristle Blaster® Pneumatic) Fast, flexible, and economical application
- Environmentally friendly and safer in-service use
- Ideal for spot repair, touch-up jobs and weld seam preparation

The patented Accelerator Bar is the core feature of our Bristle Blaster® technology



Dust exhaust attachment

PRODUCT ADVANTAGES

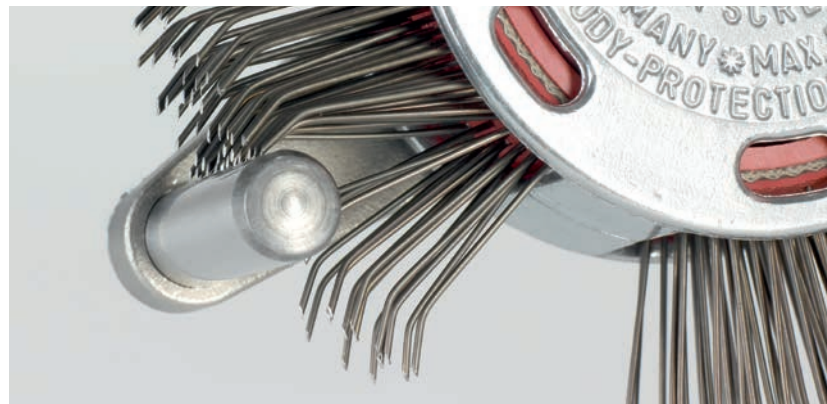
The patented Bristle Blaster® technology has the ability to quickly remove corrosion and coatings even from pitted surfaces. Simultaneously, the Bristle Blaster® generates a surface cleanliness comparable to Sa 2½–Sa 3 (SSPC SP-10/NACE No.2–SSPC SP-5/NACE No. 1) and a surface roughness profile of up to 120 µm (4.7 mil).

The Bristle Blaster® Pneumatic is ATEX certified and approved for the use in zone 1 (Ex II 2G c IIA T4 X). A fast, flexible, and economical application coupled with environmentally friendly and safer in-service use, makes the Bristle Blaster® an indispensable surface preparation system for spot repairs, touch-up jobs, and weld seam preparation.

 II 2G c IIA T4 X

- Corrosion, mill scale and coating removal
- Surface cleanliness equivalent to Sa 2½–Sa 3 (SSPC SP-10/NACE No.2–SSPC SP-5/NACE No. 1)
- Anchor profile up to 120 µm (4.7 mil)
- ATEX approved for use in zone 1 (Bristle Blaster® Pneumatic)
- Fast, flexible, and economical application
- Environmentally friendly and safer in-service use
- Ideal for spot repair, touch-up jobs and weld seam preparation

The patented Accelerator Bar is the core feature of our Bristle Blaster® technology



BELTS

Bristle Blaster® belts are manufactured in a high-precision process at our plant in Germany. We place great emphasis on consistently maintaining the high quality standard of our products, which we guarantee with our qualified, expert staff, stringent quality policy and regular quality checks.

We offer Bristle Blaster® belts in widths of 23 and 11 mm, each in carbon steel and stainless steel



DRIVE UNITS

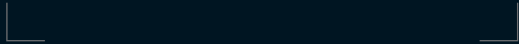
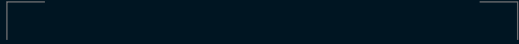
Our drive units are special-purpose tools that have been exclusively developed for powering Bristle Blaster® technology. The patented accelerator bar makes it possible to achieve the required high degree of surface quality in terms of roughness and cleanliness. Designed for professional industrial use, Bristle Blaster® drive units fulfill the highest standards in terms of quality and durability.

Pneumatically and electrically powered tools available

The Bristle Blaster® is available in a set containing all the required equipment



Your MONTI Partner



MONTI - Werkzeuge GmbH

Headquarter

Reisertstr. 21 | 53773 Hennef

Germany

T +49 (0) 2242 9090 630

F +49 (0) 2242 9090 699

info@monti.de

www.monti.de

MONTI Tools Inc.

North American Corporate Office

10690 Shadow Wood Drive | Suite 113

Houston TX 77043 USA

T +1 832 623 7970

F +1 832 623 7972

info@monti-tools.com

www.monti-tools.com

MONTI

YOUR SURFACE – OUR PASSION