

MONTIPOWER'S BRISTLE BLASTING® SOLUTIONS



II 2G c IIA T4 X

IT'S GONNA GET ROUGH

QUALITY MADE IN GERMANY SINCE 1987

**MONTIPOWER**
Surface Preparation Technologies
Part of Monti Group

BRISTLE BLASTER®



The Bristle Blasting® tool consists of wire bristle tips that are bent forward and dynamically tuned to a hand-held power tool which operates at approximately 2,500 rpm. The mechanical principles upon which the Bristle Blasting® tool is based are summarized as follows: Bristle tips are designed to strike the corroded surface with kinetic energy that is equivalent to standard processes that use grit blast media. Immediately after the bristle tips strike the corroded steel surface, they retract (i.e., “rebound”) from the surface, which results in both corrosion removal and amicro-indentation that exposes fresh surface. Consequently, surfaces that have been treated by the Bristle Blasting® tool have a texture and visual cleanliness that mimics those obtained by traditional grit blasting processes.

THE BRISTLE BLASTER® ADVANTAGE

- ➊ Removes corrosion, coatings, mill scale and other contaminants - without removing healthy material
- ➋ Generates anchor profiles ranging from 2.5 to 3.3mil (65 - 85 µm Rz) also on weld seams, edges, around bolts and on surface irregularities
- ➌ Restores corroded and pitted surfaces to near-white metal or white metal appearance - no grinding or polishing during operation
- ➍ Improves integrity of treated surface - generates compressive residual stress for crack growth resistance, improved fatigue life and improved corrosion resistance
- ➎ Cleans and profiles quickly and economically with long lasting, safe Bristle Blaster® Belts - eliminating the need for costly abrasive blast equipment
- ➏ Suitable for spot repairs as well as larger areas where other processes are prohibitive - will not use/produce hazardous material

THE BRISTLE BLASTING® INNOVATION

- ➊ Bristle Blasting® is a new process that uses a specially designed rotary bristle tool for achieving both corrosion removal and an anchor profile
- ➋ The rotating bristles are DYNAMICALLY TUNED to the power tool which results in impact and immediate retraction of the bristle tips from the corroded surface
- ➌ The bristle tips strike the corroded surface with kinetic energy that is equivalent to grit blast media, generating a texture and visual cleanliness that mimics the grit blasting process
- ➍ Bristle Blasting® simplifies the surface preparation operation and reduces expense through the elimination of expensive equipment, media and extensive environmental and safety measures



- Low vibration levels
- ATEX-approved for use in Zone 1 (potentially explosive) atmospheres in accordance with Ex II 2G c IIA T4 X (Bristle Blaster® Pneumatic)
- Low sound pressure level of max. 83.2 dB(A)
- No need for elaborate protective clothing
- Lightweight and ergonomic design



- Removes corrosion, coatings, scale and adhesive residues
- Surface preparation grade comparable with Sa 2½-3 per ISO 8501-1
- Roughness levels of up to 120 µm Rz
- Minimal loss of base material
- Generates compressive residual stress across the treated surface for improved crack resistance, fatigue life and stress corrosion resistance
- Surface free of thermal damage and traces of heat marking
- Efficient removal of viscous coatings without smearing, gumming up or clogging the belt

SETS, BELTS & ACCESSORIES



BRISTLE BLASTER® PNEUMATIC SET

- 1 each 11 mm and 23 mm Adaptor Systems
- Pressure regulators for 11 mm and 23 mm Belts
- 5 each 11 mm and 23 mm Carbon Steel Belts
- Dust Exhaust Attachment

ITEM NO.
SP-647-BMC



BRISTLE BLASTER® ELECTRIC SET

- 1 each 11 mm and 23 mm Adaptor Systems
- 10 Bristle Blaster Carbon Steel Belts
- Blow Mold Case

ITEM NO.
SE-667-BMC (120V/60Hz)
SE-670-BMC (230V/50Hz)
SE-679-BMC (230V/60Hz)

BRISTLE BLASTER® BELTS CARBON STEEL

0.7 mm spring steel angled, ground tips OD: 115mm

ITEM NO.	WIDTH(MM)
BB-033-10	11
BB-034-10	23

STAINLESS STEEL

0.7 mm stainless steel angled, ground tips OD: 115 mm

ITEM NO.	WIDTH(MM)
BB-102-10	11
BB-103-10	23



BRISTLE BLASTER® PNEUMATIC TOOL

Free Speed	: 3,500 rpm
Required Air Pressure	: 90 psi / 6.2 bar
Average Air Consumption	: 17 cfm / 500 l/min
Interior Air Hose Size	: 17 cfm / 500 l/min
Weight	: 2.4 lbs / 1.1 kg
Warranty	: 12 months



BRISTLE BLASTER® ELECTRIC TOOL

Free Speed	: 3,200 rpm
Voltage Rating	: 120V ± 10% / 60Hz 230V ± 10% / 50Hz 230V ± 10% / 60Hz
Weight	: 4.9 lbs / 2.2 kg
Warranty	: 12 months

ADAPTOR SYSTEM

Made of high quality die cast aluminium, with safety elements. Includes screw and allen key

ITEM NO.	WIDTH(MM)
AS-012	11
AS-009	23



SWIVEL CONNECTOR

Increases freedom of movement through a full 360°. Makes working even easier. Prevents air pressure hoses from twisting

ITEM NO.
ZU-073 Swivel connector



AIR PRESSURE REGULATOR

Reduce the air pressure to the optimum operating pressure (6.2 bar for 23 mm belts, 5.2 bar for 11 mm belts)

ITEM NO.
ZU-070 Air pressure regulator 11 mm
ZU-071 Air pressure regulator 23 mm



ACCELERATOR BAR

Extremely robust and low-wearing. Available in two length and material variants (use dependent on width and material of the belt)

ITEM NO.
ZU-061-05 Accelerator Bar Steel 11 mm
ZU-060-05 Accelerator Bar Steel 23 mm
ZU-063-05 Accelerator Bar Stainless Steel 11 mm
ZU-062-05 Accelerator Bar Stainless Steel 23 mm



DUST EXHAUST

Captures up to 80% of the particles that arise as a result of the work process. Can be adapted for use with all commonly used industrial vacuum cleaners.

ITEM NO.
ZU-021 Dust Exhaust for Bristle Blaster® Pneumatic





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