

Renewable Energy in Australia

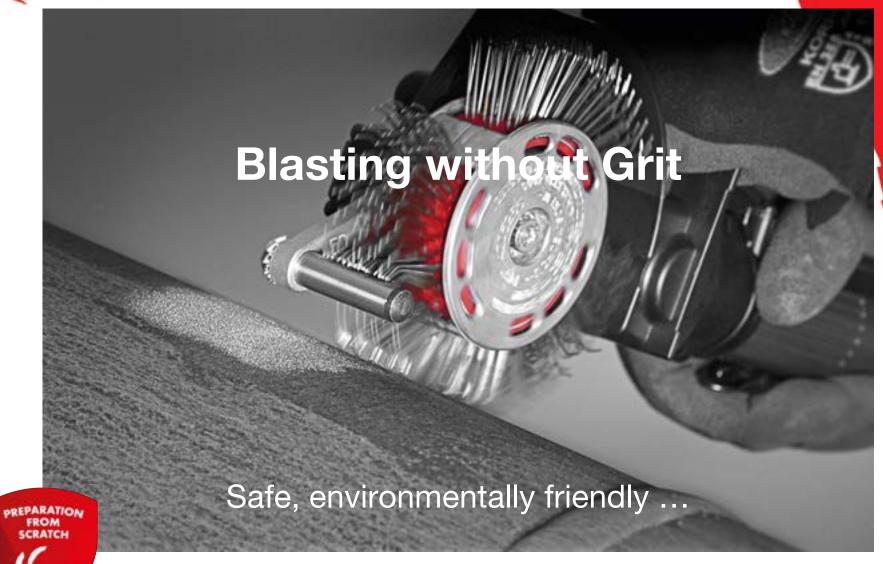




Use of the Bristle Blaster for coating preparation









Bristle Blaster® Technology

- Provides surface cleanliness up to ISO Sa 2 ½ to Sa 3
- Generates roughness R_z up to 120 μm (4.7 mils)
- Simultaneously removes corrosion and coatings and provides anchor profile for new coating adhesion.

Safe, Environmentally friendly, improves coating performance



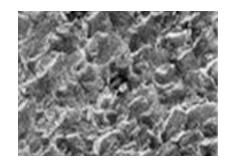


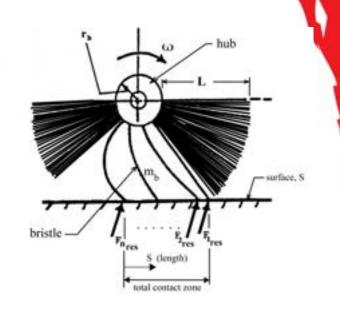


How it works / Conventional wire brush

- Each wire strikes and retracts immediately after the impact
 - → negligible heat generation due to very low friction
- no grinding process
 - → no burning marks
- abrasive blast finish















Bristle Blaster® Drive Units

Bristle Blaster® Pneumatic



Bristle Blaster® Electric



New Products on the horizon

Bristle Blaster® Cordless



Bristle Blaster® Wide





Proud Supporters & Members of the





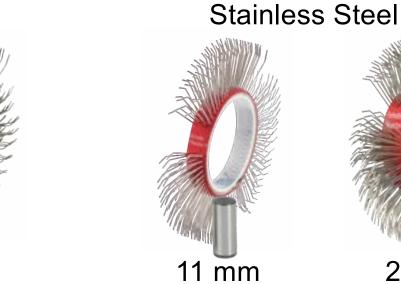


Bristle Blaster® Belts & Adaptors

Carbon Steel

















Not to be confused with....!!

MBX



No Accelerator Bar





Smaller, thinner gauge wires, no plastic insert. NOT RED







Wind tower weld seams







We have all seen images like the one top right

Left compared to Right:

- No heat generation;
- No scratching, but rather cleaning and profiling for increased coating performance;
- Compressive residual stress generation rather than introduction of grinding marks that serve as initiation sites for fatigue cracks;





Flange Repairs











Australian Environment



Coastal - harsh Farmland - sensitive Snow - harsh

Desert - harsh

Forest – sensitive

Some of the harshest environments require the best coatings. These coatings require the optimum surface preparation.





MONTIPOWER Case Study 1 - 2019 Surface Preparation Technologies

Tower segments before erecting - damaged during shipping. 30+ turbines, each tower has three segments. All but 2 damaged.





Case Study 2 - 2020

Repairs to towers at coastal wind farm where incorrect coating had been applied and was not withstanding the harsh environment











Case Study 2 - 2020

Repairs to towers at coastal wind farm where incorrect coating had been applied and was not withstanding the harsh environment

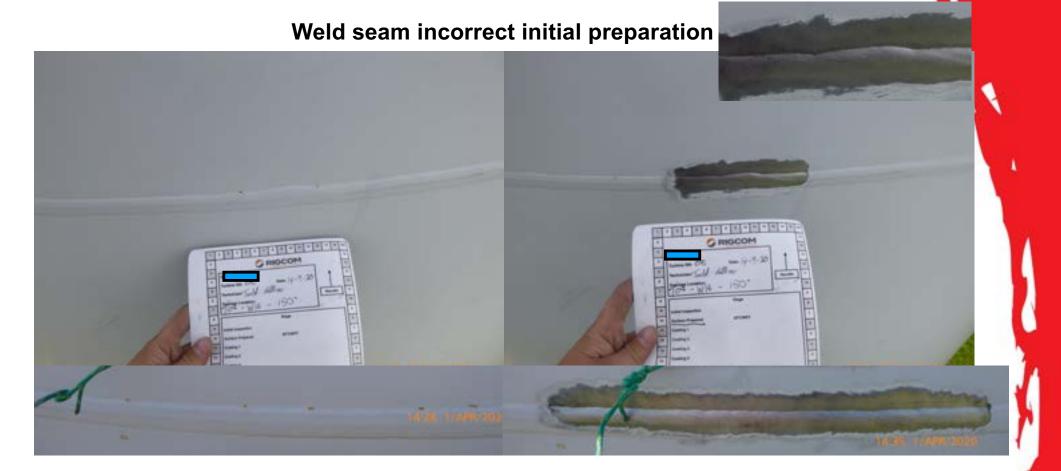
Flange Joint thoroughly cleaned





Case Study 2 - 2020

Repairs to towers at coastal wind farm where incorrect coating had been applied and was not withstanding the harsh environment





Other Steel Structures









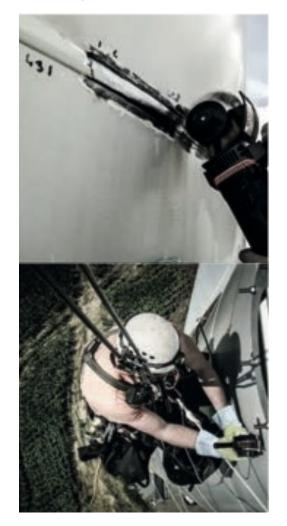






Global OEM's

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







Coating manufacturers specifying the Bristle Blaster























Standard Development - inclusion of Bristle Blaster in revised Coating Standard

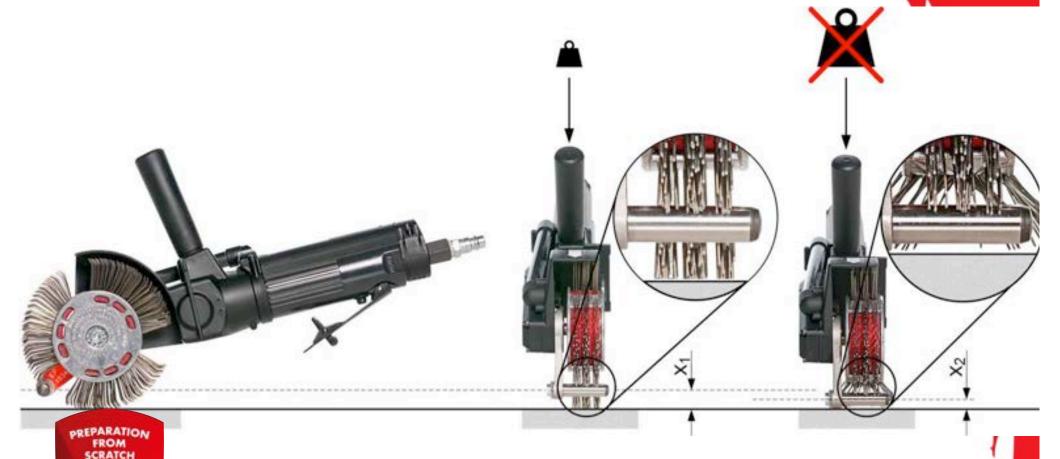
AS/NZS 2312.1: 2014 "Guide to the protection of structural steel against atmospheric corrosion by the use of protective coatings"





www.montipower.com.au

How to Operate: Tool-Workpiece-Distance

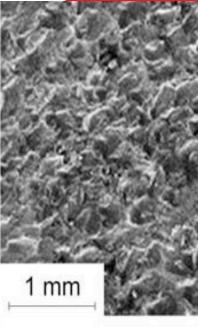


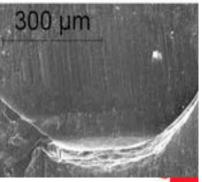




How to Operate: Tool Handling











Live Demo

We couldn't fit a wind tower into the building, so a miniature version will have to suffice.

However – the principles of using the Bristle Blaster on any steel substrate are essentially the same.