



Mercury

Titan

Mars

Machine Models...

Mercury

700x700 entry level GRP cabinet machine, manually operated machine, suitable for components up to 50 kg.

Mars

1,000x1,000 GRP cabinet machine, manual or semi-automated, suitable for components up to 200 kg.

Titan

Largest GRP cabinet machine suitable for components up to 600 kg. Manual or semi-automated, capable of running several process guns at once.

Saturn

Heavy duty, abrasive lined, steel cabinet for large components up to 1,000kg. Manual, semi-automatic, single or multiple process gun(s). This model offers a wide range of equipment options to increase output and operational efficiency.

Neptune

Walk-in Blast Rooms starting at 3.24 m² up to 60 m². Single or multiple operators. Blast Room size manufactured to suit the application requirements.

Custom-built

If none of the standard models available suit your application. Dana-Ridge will design and build a machine to suit your application needs.

ADAE PTY LTD TRADING AS
Dana-Ridge
 ABN 93 109 483 007

HEAD OFFICE

12/67 Bancroft Road
 Pinkenba QLD 4008
 PO Box 72
 Albion BC QLD 4010

ph. +61 (0)7 3860 4913
 fx. +61 (0)7 3860 4869

Australia Toll-free 1800 806 316
 New Zealand Toll-free 0800 944 788

Website: www.dana-ridge.com.au

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The Wet Blasting Process... for a surface finish out of this world



Component cleaning
 De-scaling
 De-carbonising
 De-flashing
 De-rusting
 Peening
 Deburring
 Polishing

Surface preparation prior to painting, coating, plating or bonding
 Producing a high quality finish
 Radioactive decontamination

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The advantages of Wet Blast Processing.

The Wet Blast Process is one of the fastest, most versatile, efficient and economical metal cleaning and surface finishing systems on the planet.

The process uses a solution of media, water, and compressed air to develop a scrubbing action on the work-piece surface being processed. The scrubbing action prevents impregnation of the contaminants and media into the work surface, leaving a brilliant, clean surface.

Environmentally friendly - No toxic or harmful chemicals used and no atmospheric pollution generated

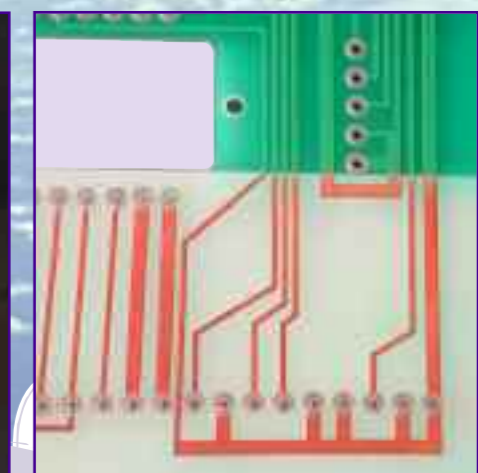
Complete control of blast processing. Mild to aggressive, sateen to matte finish, and everything in between

Simultaneous removal of oil, grease, burnt on carbon, paint, scale, soil and surface contaminant. No need to pre-clean

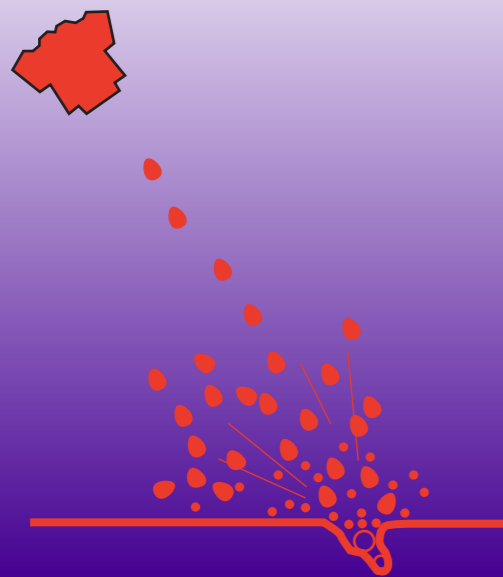
Complete elimination of dust, does not need 'dry' air
No component erosion or impregnation - critical measurements maintained

Versatility - A wide range of finishes can be achieved with a variety of media types i.e. glass bead, aluminum oxide, plastic, sodium bicarbonate, crushed glass, garnet and organics; to suit your particular processing application

Excellent economics - lower media consumption, low maintenance costs, low power consumption Vs speed of processing, less labour = highly economical

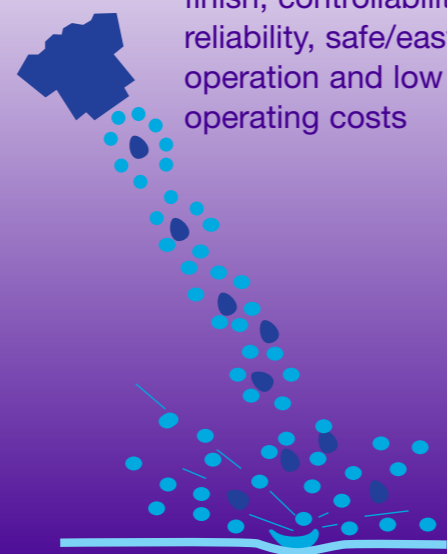


Comparison with dry blasting...



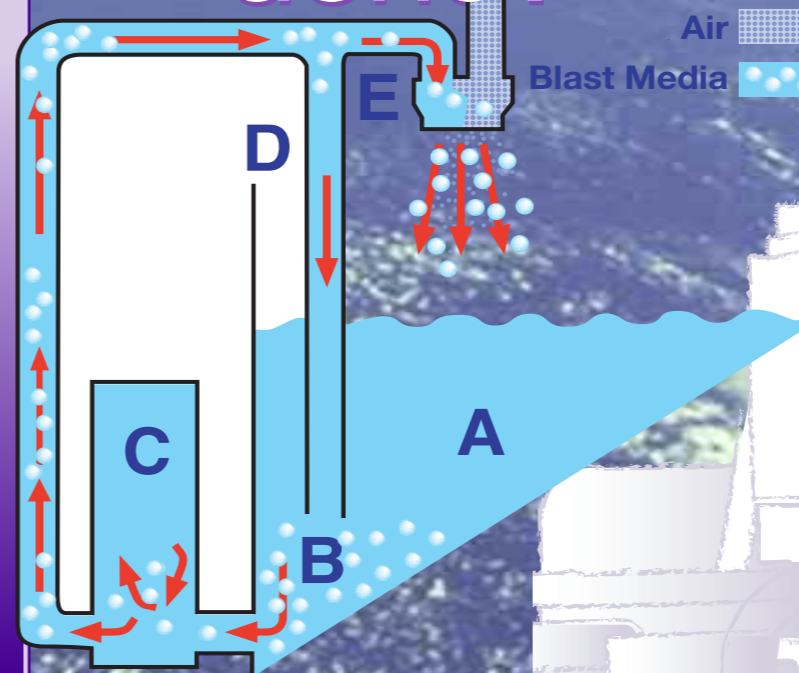
A crude dry grit or sand blasting - direct media to metal contact. Continuation of downward force, causing media impregnation.

The Wet Blasting process is the safe alternative with superior results; faster processing, superior finish, controllability, reliability, safe/easy operation and low operating costs



Wet Blast processing water acts as a buffer between metal and media, to cushion shock and deaden downward force.

How is it done?



The component surfaces are bombarded by a recirculating high volume flow of water borne solid particles (normally abrasive or glass beads), contained within the machine sump (A). The specially developed abrasive resistant lined, glandless Wet Blast pump (C) pulls the slurry of media and water (B) from the machine sump and pushes it at a constant high volume flow to the process gun (E).

A proportion of the water and media is diverted down a by-pass (D) to provide slurry agitation. To accelerate the flow of media particles onto the surface of the work-piece, a controlled flow of compressed air is introduced at the process gun. The water in the Wet Blast process lubricates, cools, washes, carries mild inhibitors/degreasers totally eliminates any dust formation and any static charge.

The versatility of the Wet Blast process is demonstrated in the applications above.

1. Aggressive enough to etch headstone marble quickly without generating dust.
2. Safe cleaning the weld heat-affected zone, providing a uniform surface finish on stainless steel without the use of any harmful, toxic chemicals.
3. Controllable blasting pressure to remove the varnished surface from Printed Circuit Boards, without damaging the conducting surfaces.
4. Gentle enough to clean casting investment off a delicate jewellery tree without erosion of fine detail.
5. Brilliant surface finish left on alloys without the need to de-grease prior to cleaning. Saving time, labour and chemicals.