

Product Bulletin

For Blasting and Painting Specialists



New robotic blasters create no dust

Airless, dustless, and three times faster than conventional blasting!

If your blasting work includes large vertical or horizontal metal surfaces, as commonly found in shipyards and in many steel tanks, Blastmaster has the perfect tool for the job – a robotic blast system.

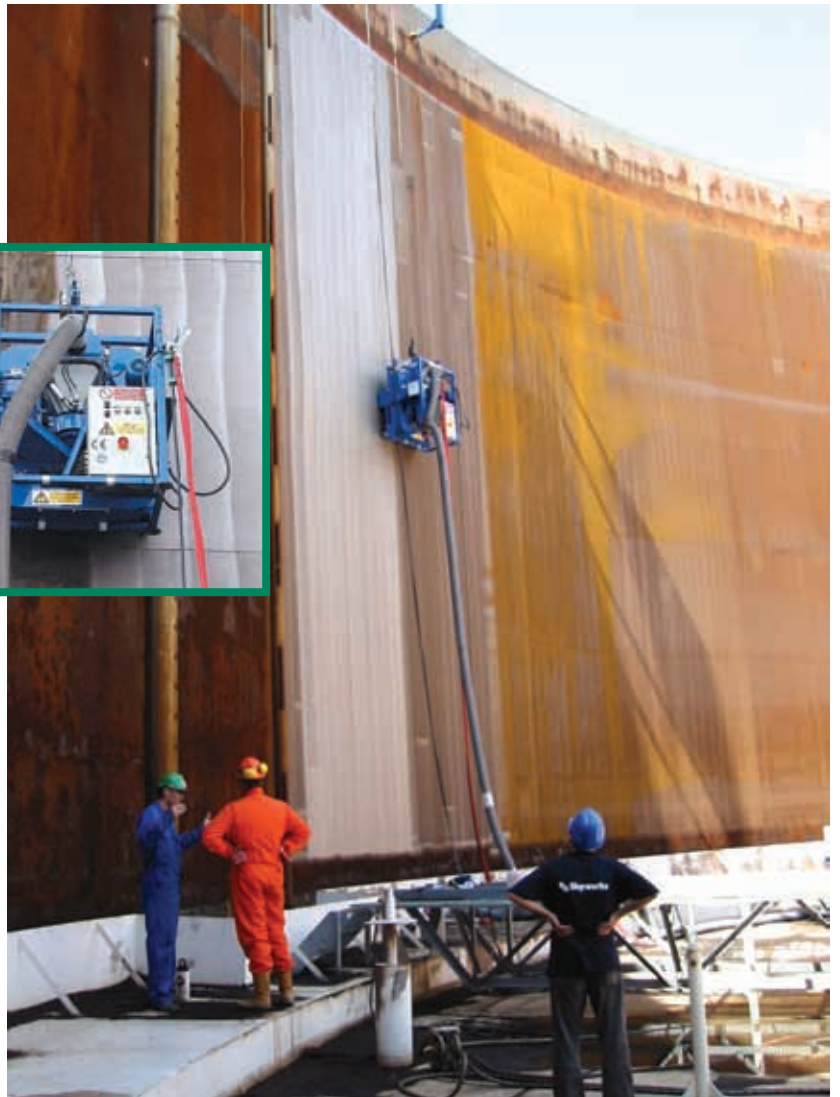
Vertical or horizontal blasting

The Blastrac™ range of blasting systems are portable, airless and dustless, and are operated by remote control.

Designed to be used in either vertical or horizontal positions, the Blastrac™ portable robot systems are up to three times faster than conventional blasting and use just a tiny fraction of abrasive material.

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Now in stock at Blastmaster for Sale or Rental, these vertical Blasting Units create no mess, no dust and only use a handful of grit per square metre.



If it's a big area, you need a Blastrac™

Dust free system – no mess!

How does the Blastrac™ system work?

The Blastrac™ portable airless blasting systems deliver many of the benefits of much larger, more expensive, in-house airless units – with the ability to carry out blasting on-site.

Automatic cleaning and recycling

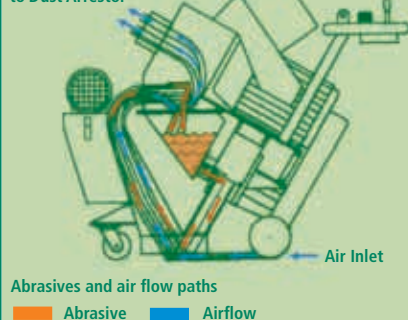
The working principle of Blastrac equipment is based on the laws of kinetic and mechanical energy. The cleaning operation is performed by steel abrasive (grit or shot) being thrown at high velocity against the steel surface to be cleaned.

The steel grit or shot is thrown by an airless blast wheel rotating at high speed. The blasting zone is completely enclosed and the operation is dustless.

After the abrasive has impacted the work surface in a high velocity stream, it rebounds back into the machine, taking the rust and old coating debris with it.

BLASTRAC EBE350

Dust and Debris to Dust Arrestor



Cut your abrasive costs

Inside the machine the abrasive is separated from the dust and debris. The abrasive is reused over and over again, while all dust and debris is removed and collected in a portable dust collector for disposal. This process is an on-going and automatic continuous operation.

This system recycles the steel abrasive hundreds of times with consumption around 0.2 - 0.5kg per square metre blasted!

Blastrac™ portable airless blasting systems have revolutionised the blast cleaning of large vertical and horizontal surface areas.

Blastrac™ portable vertical blasting units are suspended by crane or rigging systems and pulled close to the work surface by magnets.

All dust, grit and abrasive remains entirely contained within the blasting unit, so there's no mess to clean up and no hazardous airborne residues.

Recycled abrasive cuts costs

Steel abrasive is thrown by a rotating, high speed, airless blast wheel, and all abrasive is continuously recycled and separated from dust and debris.

A Blastrac™ system uses just 0.2 – 0.5kg of abrasive per square metre blasted, delivering huge cost savings on abrasives.



Profile after blasting gives excellent surface for painting.



Quick access, fast work

Horizontal portable Blastrac™ units are specially designed to be easily disassembled for quick access into petrochemical or water tank floors, and are also ideal for blasting ship decks.

Blastrac™ portable blast systems will blast steel and aluminium floors and walls with ease – typical blasting rates are 3 times faster than conventional blasting.

Blastrac™ portable systems are available for hire or purchase exclusively from Blastmaster.

Call today to find out more about how a portable Blastrac™ robotic system can boost your business to new heights.



Breathe safer and easier with Blastmaster Breathing Hose

Did you know that using uncertified, compressed air hoses can be illegal and can potentially seriously damage your lungs if used for breathing air?

The lining inside many air hoses often deteriorates with age, oil vapours and heat, potentially releasing toxic particles straight into the blast operator's breathing air supply. Unapproved hose connector fittings are also often easily damaged and accidentally disconnected, thereby cutting off the operator's breathing air supply.

Improved safety standards

Since 2004, Australian Standards AS1715 and AS1716 require that all air breathing hoses used for blasting operators comply with new safety standards.

Blastmaster's Breathing Air Hose fully complies with both these safety standards, and features a non-toxic hose lining that will not deteriorate with use, plus special 'double action' hose fittings for extra safety.

Easily adaptable

Sometimes known in the industry as 'Diver's Hose', Blastmaster's Breathing Air Hose is rated up to 350psi working pressure and is available in lengths of 20 and 100 metres.

A 10 mm (3/8") internal diameter ensures plenty of airflow volume is available for the operator at all times.

Stay connected

Blastmaster's special double action hose fittings require two distinct actions in opposite directions to open them, thereby preventing accidental disconnection.

A durable chrome plating provides extra long life, and an in-built stop valve prevents air loss in the hose when the couplings are disconnected.

Switch to Blastmaster Breathing Air Hose today and protect your health now and in the future.



To ensure safe breathing, always use a breathing hose with a non-toxic lining coupled with Double Action Quick Connect Air Fittings.



Under AS1715 and AS1716 you must use hose joiners that will not come apart if the joiner is caught or snagged. Double Action Quick Connect Couplings are a very good way of doing this. Please refer to Blastmaster Catalogue page 109 for part nos. and sizes.

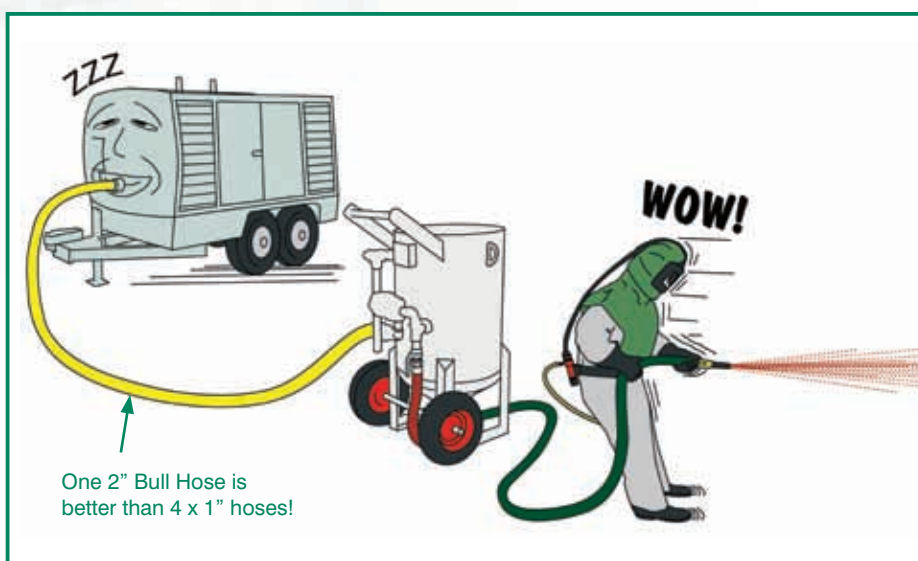
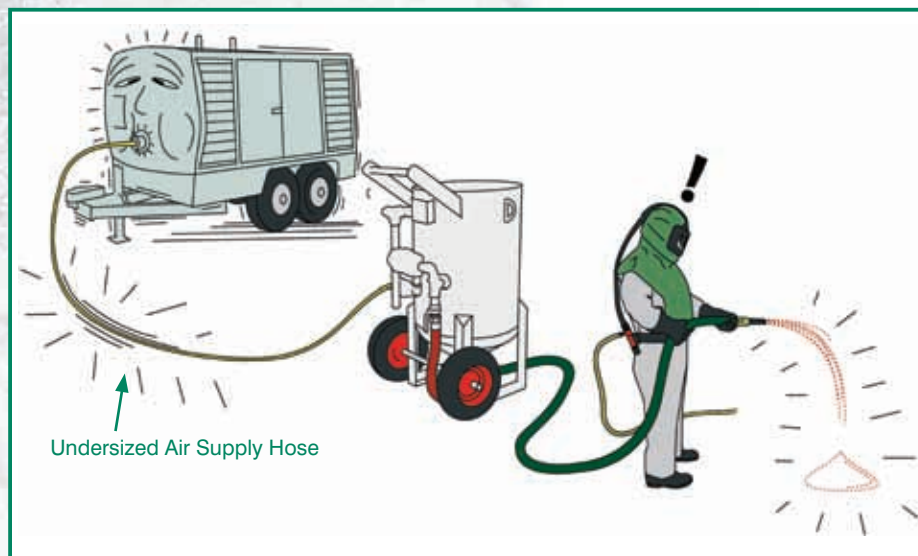
Bull Hoses

Get the most productivity from your air hose

Use a large ID size. When it comes to air compressor hose, bigger is always better. Running large ID air line (1 1/2" or 2") from your compressor to your blast pot reduces the friction pressure loss caused in smaller, more restrictive sizes. Air pressure drops have a large impact on production. One 2" hose is better than 4 x 1" hoses!

Minimum Compressor Air Line Sizes

Nozzle Orifice size	Minimum Air Line ID
1/4" (6.5mm)	1" (25mm)
5/16" (8mm)	1-1/4" (32mm)
3/8" (9.5mm)	1-1/2" (38mm)
7/16" (11mm)	2" (50mm)
1/2" (12.5mm)	2" (50mm)
5/8" (16mm)	2-1/2" (64mm)
3/4" (19mm)	3" (76mm)



Compressor Size is very important

Keep your productivity up

Maximize compressed air volume and pressure. A blast cleaning operation's productivity level directly depends on the volume and pressure of the air passing through the nozzle.

In operations with slow production rates, there's usually not enough air volume (cfm) and pressure (psi). A larger compressor will provide more air to support a larger nozzle, and a larger nozzle gets the job done faster.



Air Compressor

- Fully maintained and serviced on a regular basis.
- Capable of 125psi discharge pressure.
- High volume output (typically 300+ cfm per nozzle) based on nozzle size requirements plus 50% wear allowance (plus 30 cfm of breathing air quality per operator)
- High temperature safety cut out.
- Oil and particulate filter separator.
- Located upwind and away from the blasting area.

Blast Hose

Get the best production possible

Make sure your blast hose is large enough to make the most of your nozzle. You know that to get the highest, fastest production out of your blasting set-up you need to run the largest blast nozzle that your air source can support. But, don't forget the blast hose.

It won't do you much good to run small blast hose to a large nozzle or vice versa.

Shorter is Better. Don't lose pressure.

Keep your air hose and blast hose lengths short. Put your compressor as close to the blast pot as possible, and keep your pot near your blasters to shorten the distance the air has to travel and keep pressure

drops to a minimum. It's especially helpful to keep blast hose length short since pressure drops are even greater than in air hose because you're pushing abrasive and compressed air through the line.

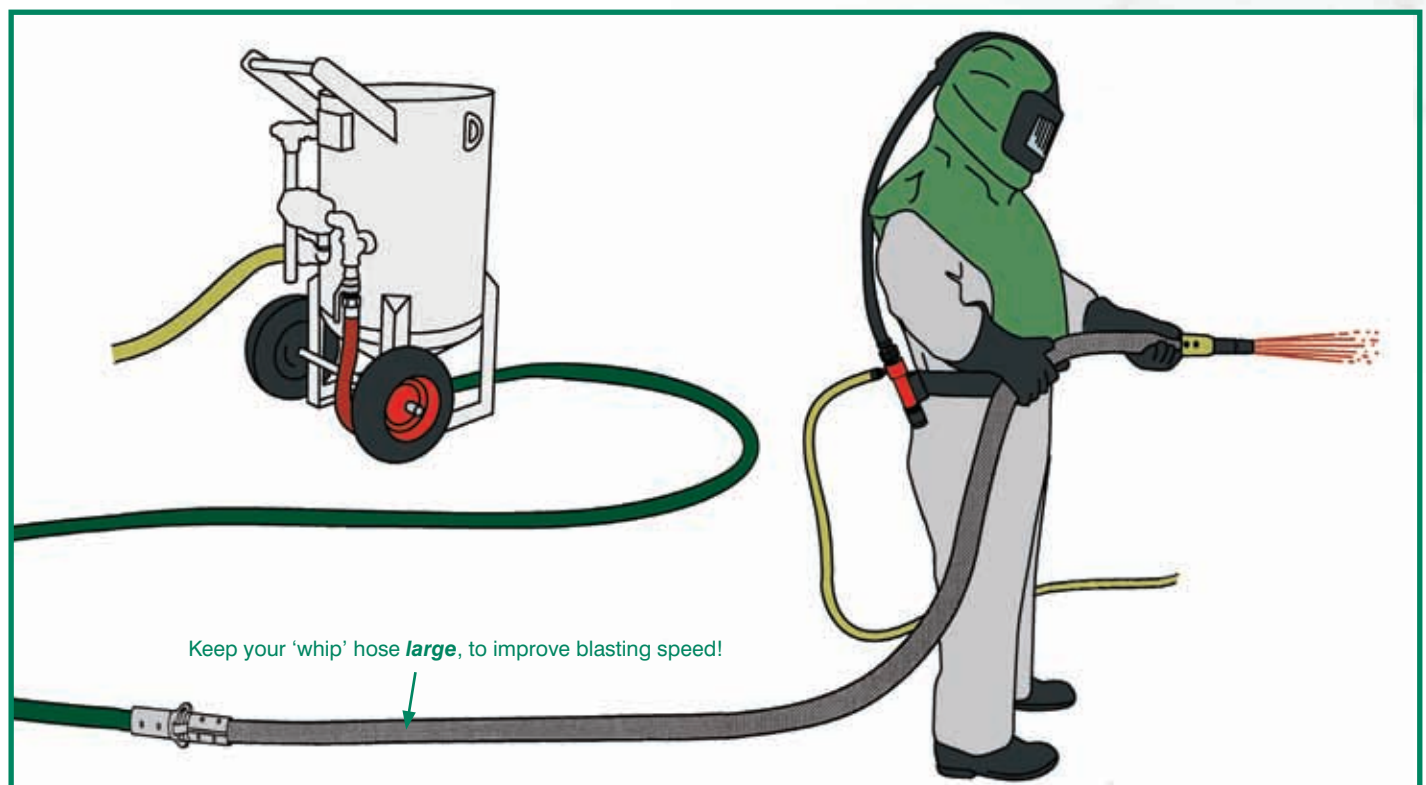
Whip Hoses. Don't go too small on your whip

If the operator finds the standard blast hose too heavy to work with all day, a short length of flexible, lighter weight, blast hose – called a whip – can be used near the nozzle. But be careful of using hose which is too small. By decreasing the ID of the blast hose, you increase friction losses and decrease productivity.



Comparative Percentage Hose Area Reduction

Main Blast Hose Size	Whip hose Size	% of reduction of internal area
1 1/2" (38mm)	1 1/4" (32mm)	31%
1 1/2" (38mm)	1" (25mm)	56%
1 1/4" (32mm)	1" (25mm)	36%
1 1/4" (32mm)	3/4" (19mm)	64%
1" (25mm)	3/4" (19mm)	44%



Blastmaster equipment for hire



Blastrac

For surface preparation of storage tanks, offshore platforms, ship decks and hulls. Our horizontal and vertical systems are:

- More reliable: no pumps to buy or maintain.
- More productive: up to 6 times higher than open blasting.
- More cost-effective: less manpower, no containment, simplified waste handling.



Bulk Blaster

Have you got a big blasting job?

Wheel out this pot which holds 10 tonnes of Garnet and will run 4 operators all day without running out.

Reduce all the downtime of pot refills, and the inefficiencies of having pot tenders.

This is real blasting business.



Mobile Dust Collectors

For your next Lead Paint Removal project or "environmentally sensitive dustless" job. To create negative air inside your containment and ventilate your work site, hook up a Mobile diesel driven Dust Collector and let it filter your air.

Available in the Blastmaster Hire Fleet in 40,000 cfm, 30,000 cfm, 20,000 cfm and 12,000 cfm sizes. All units are fitted with ULTRA filtration for Lead Removal.



Ultra-clean 40,000 psi

Now available for hire in Australia from Blastjet, this 40,000 psi UHB water jetting machine will remove very thick, baked-on coatings rapidly, using very little water.

Ideal for use in Shipyards, Refineries and other sites of extreme environmental sensitivity to prepare for painting without any dust.

May also be used for cleaning, weld inspection and no-spark steel cutting (with Garnet injection).



Decontamination Trailers

On some projects you have to protect your workers' health by providing decontamination showers and change rooms.

This is a requirement of all Lead Paint Removal jobs in particular. The Blastmaster De-Con Trailers have hot water showers and a clean room built into one handy on-site unit.

Waste water is collected and filtered before being pumped to disposal.



Mini Garnet Recycler

So you want to recycle the Garnet on your job site, but need to clean all the dust and fines out? Simply shovel your dirty GMA Garnet into the loading hopper, and the Recycler removes fines and dust to give you an excellent reusable Garnet. Again and again.

This unit is designed to recycle 3 tonnes per hour. If you have a big project you may require one of our bigger 8 tonne/hour Recycling Machines.



Vacuum Recovery

Why use buckets, brooms and wheel barrows when you can quickly vacuum up the spent abrasive from your job site? These vacuum units are powered by compressed air (your compressor is normally free when you're cleaning up).

With up to 200 metres of vacuum hose, these vac units can be set up for easy recovery of your Garnet.



Blast Units

Need a couple more pots for that project for a couple of weeks? Call our Hire Fleet in.

We'll rent you a complete package including hoses and helmets for just a fraction of the cost of buying.

All these units are the latest technology Blastmaster pots, so you can see for yourself how much better they work than all your old pots.



Airless Paint Pumps

Haven't got enough sprayers ... for that large project? Blastmaster have a fleet of Rental Painting Pumps for your hardest to spray coatings.

Call us today!

Specials on Spray Guns



Blastmaster Contractor II™ Gun

With a ComfortGrip handle and a 2 finger trigger this Spray Gun has a 3600 psi rating. Includes a Hand Tite RAC5 tip and guard.

Contractor Gun II with 517 RAC5 Tip and Base.

\$349



Blastmaster Contractor FTx II™ Gun

With a Cylindrical handle and a 4 finger trigger this Spray Gun has a 3600 psi rating. Includes a Hand Tite RAC5 tip and guard.

Contractor II FTx Gun with 515 RAC5 Tip and Base.

\$298



Blastmaster Silver Plus™ Gun

A high performance industrial spray gun with a form fitted handle and a 2 finger trigger and a 5000 psi rating. Includes a Hand Tite RAC5 tip and guard.

Silver Plus Gun with 517 RAC5 Tip and Base.

\$398

INDUSTRY STANDARD



Blastmaster XTR-7™ Gun

Heavy duty, industrial coatings spray gun with a compact and ergonomical design. Comes with a 2 or 4 finger trigger and 7250 psi rating. Includes heavy duty RAC tip and guard. Easy to flush.

XTR-7 Gun with 519 GHD Tip and Base (shown left).

XTR-7 Gun with 519 GHD Tip and Base (with comfort grip handle) – most common.

\$495

Blastmaster Instrument SPECIALS!

Paint-Gauge™ DFT only \$710!



The most compact coating thickness gauge available. Weighs only 70 grams and is the size of most mobile phones! Measure up to 1,000 μm on steel - Combo for ALL metals available.

Paint-Gauge™ 6000 only \$820!



Built in probe.

Separate probe.

The Paint-Gauge™ 6000 is the most versatile coating thickness gauge available.

- Large easy-to-read screen with flip display enables right-side-up viewing.
- Robust gauge with user-friendly rubber pouch giving extra protection against damage.
- Easy-to-use navigation screen.

Measures up to 1500 μm on steel (dual ferrous /NF versions in stock).

Memory Model also available.

New Model!
Steel Thickness Gauge – UTG only \$890!



The most user-friendly ultrasonic thickness gauge around! Measures the wall thickness of steel, aluminium, plastic... and much more. Changing substrate material is easy with on-screen menu.

Indicators show the probe is coupled to the surface correctly – no false readings!

Memory stores up to 10,000 readings in 1,000 batches.

Advanced model has 'Thru-paint' capability to measure the metal thickness without removing the coating.

All prices exclude GST and freight



Air Distribution Manifold

Commonly called an 'Air Pig', this manifold is a convenient multi outlet air point. You can run hoses to your spray pump or breathing air filter easily.

See Blastmaster Catalogue p.69 for more information.



Radiator Brushes

Every painter should have one of these in their back pocket! Painting in hard to reach areas, stripe coating and much more. Available in Premium and Economy models 50mm wide.

See Blastmaster Catalogue p.272 for more information.



Spike Rollers

How do you get the air out of those thick floor coatings or concrete screeds? Our spike rollers also aid in self levelling. Available in different sizes.

See Blastmaster Catalogue p.274 for more information.



High Pressure Paint Filters

Long high Pressure Filter screens are in stock for most brands of pumps. Screen sizes from 30 mesh to 200 mesh. Try us out!

See Blastmaster Catalogue p.261 for more information.



Masking Tape

What size masking tape do you use? What type do you like? Call Blastmaster for all your requirements.

See Blastmaster Catalogue p.273 for more information.



Lead Check Swabs

This is how you check for the presence of lead in paint on structures. A simple, quick, qualitative test. Also available to test for chromates.

See Blastmaster Catalogue p.144 for more information.



Illuminated Inspection Magnifier

For inspection of surfaces or to compare surface profiles. This battery powered magnifier can be used in low light conditions.

See Blastmaster Catalogue p.186 for more information.



Sundstrom Full Face Mask Respirator

Now with new glass visor so you can clean up with solvents! We also have peel off visors available.

See Blastmaster Catalogue p.120 for more information.



Internal Pipe Blasters

For blasting inside pipes up to 900mm ID. By using a twin nozzle spinning head you can easily clean back to white metal.

See Blastmaster Catalogue p.127 for more information.



Disposable Eye Protection Goggles

This simple goggle is designed to protect you from nuisance dust. Fabric edge for comfort.

See Blastmaster Catalogue p.123 for more information.



Cooling Vests

Ideal for the heat of summer! Wear under your Blast suit whilst you're in the blazing sun. Will keep you cool for hours! Available air fed or with regenerating cool packs.

See Blastmaster Catalogue p.110 for more information.



Repair Kits for Pumps

Does your Painting Pump need a repair kit? Try Blastmaster for Graco, Binks, Wagner and Speeflo spare parts.

See Blastmaster Catalogue p.255-259 for more information.

30 DAY MONEY BACK GUARANTEE ON ALL PRODUCTS!

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