

A Short Introduction to Elcometer Dry Abrasive Blast Machines

Manufactured at our state-of-the-art production facility, and with over 35 years' experience in blast machine manufacture through our sister company Blast Equipment Limited, Elcometer's new range of Blast Equipment has been designed from the ground up. Great care has been taken to make sure that each and every component has been designed to be safer, more reliable, efficient, and easier to maintain.

Every item has been designed to optimize your performance in the field – whether it's our remote control valves, our abrasive media valves, air distribution manifolds, or moisture separators - and what's more, they are made in Great Britain.

[sub-title: Abrasive Blast Machines]

The Elcometer Abrasive Blast Machines are available in a range of sizes, starting at the small 10", 20 litre [0.7cu ft] unit – ideal for small blasting projects, touch up work, or when you need to blast in confined spaces. All the way up to our 24", 285 litre [10.0cu ft.] units, which are perfect for large scale applications which need continuous high production blasting. Elcometer's portable and static Abrasive Blast Machines are rated to operate up to a maximum working pressure of 12 bar [174psi], ensuring you will always have the pressure at the nozzle you need to maximise your productivity.

And for those jobs where you need it, we also have a range of 15bar [217psi] portable and static units, which ensure that no matter how long your blast hose is, you can rest assured that you will be able to have the pressure you need at the nozzle - even if the hose is a little old or wearing out, and no matter what abrasive you are using.

[sub-title: Enhance Your Performance]

The design of your blast machine, and your blast hose's diameter, length, age, wear and quality, can all affect the pressure at the nozzle. The pressure at the nozzle, together with the cfm flow rate, has a dramatic effect on blast efficiency and productivity. In fact, for every additional 1psi (0.068bar) above 100psi (6.8bar) at the nozzle, you get a 1.5% increase in productivity.

That is why our blast machines have not only been engineered for minimal pressure loss, but when combined with Elcometer's 12 or 15bar [174 or 217psi] maximum working pressure, you will always achieve the pressure you need at the nozzle to maximise your productivity, no matter what the condition of your blast hose.

What's more, to optimise the cfm flow rate through the blast machine, all of our pipework has an internal diameter of 1½" (38mm) from the air intake to the Mixer T, allowing you to select a larger nozzle diameter - so you can blast more, in less time.

And, when combined with Elcometer's Abrasive Media Valves - all of which come with fingertip adjustment so you can precisely control the media flow even when blasting – you will be able to use less abrasive to blast the same area, whilst still achieving the specified profile.

[sub-title: Elcometer Engineered]

From major components, to the smallest details - every aspect of an Elcometer Blast Machine is manufactured to industry leading specifications, uses high quality components, and is fully designed and British engineered by Elcometer experts with over 35 years' experience.

An Elcometer Blast Machine is designed to make it easier to get the job done. For example, the high flow concave dish is complete with an adjustable deflector plate, angled at 45° to ease flow for fast

filling. It is also designed to prevent abrasive escaping the blast machine when the pop up valve is engaged, avoiding damage to the pop up sealing ring, and stopping media from dangerously spraying out of the pot.

When it comes to abrasive flow through to the media valve, the 45/90° cone maximises abrasive flow rate and prevents blockages. Each Elcometer Abrasive Blast Machine is also fitted with a vibrator plate, so a ball vibrator can be retro-fitted to fluidise the flow of abrasive media, especially when using fine abrasives or soda.

Our sieves and lids are also designed to sit outside the machine, and not inside the dish, to prevent water and rain ingress from the top – after all, wet abrasive clogs the system, resulting in unnecessary downtime.

When it comes to moving the blast machine around the site, we've thought about that too. Each unit is perfectly balanced, and as all the control systems and pipework are carefully designed to fit within the axels, our blast machines are able to fit through most standard doorways.

And, when the job is done, and it's time to go home, the blast machine can either lay down on its back in your truck, or lifted using the heavy duty lifting lugs, which have been designed to make sure that the unit touches the ground wheels first – avoiding damage to the front, reinforced leg.

For more information on the Elcometer Blast Machines, Valves, ancillary equipment, Personal Protection Equipment, and our complete range of spare and replacement parts - please follow the link to our YouTube Channel or visit our website.