Glass Sandblasting System

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Introduction

CadBlast is the specialist division of RegaLead, supplying equipment and accessories for the decorative sandblasting of glass. With over 25 years experience in the decorative glass business, RegaLead understands the requirements of the industrial glass processor and the glass artist alike.

We’ve teamed up with some of the world’s best suppliers of equipment and materials to put together a complete package and provide our customers with a one-stop-shop.

Our range of equipment has been developed to offer cost effective, yet robust machinery for the glass professional. To complement this, the CadBlast range also includes all the ancillaries required for decorative sandblasting.

When it comes to sandblasting...CadBlast is your complete solution.
We are pleased to be an officially appointed distributor for Digregorio Sandy equipment. This high specification sandblasting equipment is manufactured in Italy and comes with several unique features:

- 20 Zone programmer *
- 100 program memory via sim card*
- Siemens touch screen control panel
- External gun sliding system
- Frame only sandblasting function

<table>
<thead>
<tr>
<th>Feature</th>
<th>Model 160</th>
<th>Model 180</th>
<th>Model 200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Glass Height</td>
<td>1600mm</td>
<td>1800mm</td>
<td>2000mm</td>
</tr>
<tr>
<td>Automatic Guns</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Manual Gun</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sandblasting Zone System</td>
<td>1 Zone - Optional 20 Zone (18 Zones + 2 for Frame)</td>
<td>1 Zone - Optional 20 Zone (18 Zones + 2 for Frame)</td>
<td>1 Zone - Optional 20 Zone (18 Zones + 2 for Frame)</td>
</tr>
<tr>
<td>Gun Speed Controller</td>
<td>8 Speeds</td>
<td>8 Speeds</td>
<td>8 Speeds</td>
</tr>
<tr>
<td>Minimum Glass Size</td>
<td>300 x 300mm</td>
<td>300 x 300mm</td>
<td>300 x 300mm</td>
</tr>
<tr>
<td>Glass Thickness</td>
<td>3 - 40mm</td>
<td>3 - 40mm</td>
<td>3 - 40mm</td>
</tr>
<tr>
<td>Belt Speed</td>
<td>1.75m per min</td>
<td>1.75m per min</td>
<td>1.75m per min</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>1400lts per min</td>
<td>1400lts per min</td>
<td>1400lts per min</td>
</tr>
<tr>
<td>Dimensions (L x W x H) mm</td>
<td>5300 x 1400 x 2400</td>
<td>5300 x 1400 x 2400</td>
<td>5600 x 1600 x 2800</td>
</tr>
<tr>
<td>Weight</td>
<td>680Kg</td>
<td>750Kg</td>
<td>850Kg</td>
</tr>
</tbody>
</table>
Built in dust filter cartridges - reduce dust to 30-40 Microns

Optional 45 litre pressure pot attachment for detailed hand work

Soft brushes to reduce scratches on glass

Double Venturi guns with Tungsten Carbide nozzles

Siemens PLC controller unit
## CadBlast Semi-Automatic Sandblasting Machines

### CadBlast CB900

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Glass Height</td>
<td>900mm (open top)</td>
</tr>
<tr>
<td>Maximum Glass Thickness</td>
<td>25mm</td>
</tr>
<tr>
<td>Minimum Glass Size</td>
<td>300mm x 300mm</td>
</tr>
<tr>
<td>Inlet/Outlet Glass Rack</td>
<td>500mm x 500mm</td>
</tr>
<tr>
<td>Capacity</td>
<td>8m²/hour</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>1000ltrs/minute</td>
</tr>
<tr>
<td>Guns</td>
<td>2 x Automatic 6mm Nozzles, 1 Manual, Optional Pressure Pot</td>
</tr>
<tr>
<td>Dimensions (w x h x d)</td>
<td>2500mm x 1500mm x 1000mm</td>
</tr>
<tr>
<td>Weight</td>
<td>250kg</td>
</tr>
</tbody>
</table>

### CadBlast CB1300

<table>
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<tr>
<th>Specification</th>
<th>Specification Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Glass Height</td>
<td>1300mm (open top)</td>
</tr>
<tr>
<td>Maximum Glass Thickness</td>
<td>25mm</td>
</tr>
<tr>
<td>Minimum Glass Size</td>
<td>300mm x 300mm</td>
</tr>
<tr>
<td>Inlet/Outlet Glass Rack</td>
<td>1500mm in + 1500mm out</td>
</tr>
<tr>
<td>Capacity</td>
<td>10m²/hour</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>1600ltrs/minute</td>
</tr>
<tr>
<td>Guns</td>
<td>2 x Automatic 6mm Nozzles, 1 Manual, Optional Pressure Pot</td>
</tr>
<tr>
<td>Dimensions (w x h x d)</td>
<td>4000mm x 2400mm x 1500mm</td>
</tr>
<tr>
<td>Weight</td>
<td>800kg</td>
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</table>

### CadBlast CB1600

<table>
<thead>
<tr>
<th>Specification</th>
<th>Specification Value</th>
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</thead>
<tbody>
<tr>
<td>Maximum Glass Height</td>
<td>1600mm (open top)</td>
</tr>
<tr>
<td>Maximum Glass Thickness</td>
<td>25mm</td>
</tr>
<tr>
<td>Minimum Glass Size</td>
<td>300mm x 300mm</td>
</tr>
<tr>
<td>Inlet/Outlet Glass Rack</td>
<td>1500mm in + 1500mm out</td>
</tr>
<tr>
<td>Capacity</td>
<td>20m²/hour</td>
</tr>
<tr>
<td>Air Consumption</td>
<td>2000ltrs/minute</td>
</tr>
<tr>
<td>Guns</td>
<td>2 x Automatic 8mm Nozzles, 1 Manual, Optional Pressure Pot</td>
</tr>
<tr>
<td>Dimensions (w x h x d)</td>
<td>4000mm x 2750mm x 1500mm</td>
</tr>
<tr>
<td>Weight</td>
<td>1000kg</td>
</tr>
</tbody>
</table>
Pressure Pot


Spare Parts

Replacement Filters
The filters are designed to keep the dust particles coming from the machine to below 40 microns. Recommended annual replacement. Sold as singles. CBFILTER

Replacement Automatic Guns
The automatic guns should be replaced after 1500 hours of use. Supplied with either 6mm or 8mm Tungsten Carbide nozzles. CBGUNREP

Tungsten Carbide Nozzles
Nozzles will need replacing after every 700 hours of machine use. CBNOZZLE6 6mm for CB900 & CB1300
CBNOZZLE8 8mm for CB1600

Abrasive Material Hose
The gun hose will need replacing twice a year based on an average use of 2-3 hours per day. Sold in 5 metre lengths. CBHOSE

Pressure Pot: Hose
2 metre length. Will need replacing every 12 months. CBPPHOSE

Pressure Pot: 2.4mm Tungsten Carbide Nozzle
High quality nozzle that will last approximately 100 hours dependant on abrasive used. CBPPNOZZLE
Abrasives and Accessories

Pick Tool Kit
A pack of 2 extremely useful tools for the sandblast artist. Supplied small scalpel knife and needle. Ideal for ‘weeding out’ sandblast resist. CBKIT

Film Applicators
A Turbo Pro - for small areas RATM08
B Hard Edge - for larger areas RATM07

Combination Tool
A fantastic roller and film applicator in one. The 110mm wide hard applicator is ideal for laying both Stained Glass Art Film and CadBlast vinyl. RATM22

CadBlast Aluminium Oxide Abrasive
For sandblasting, we recommend Aluminium Oxide as it is a sharp, long-lasting abrasive sandblasting cutting media that can be re-used many times for grit blasting. As an abrasive blasting media, it is harder than most common dry abrasive blast materials and can be recycled many times. Aluminium Oxide comes in a range of grit sizes - the higher the number the finer the grit.

Colour:
Brown

Specific Weight:
3.98 gr/cm³

Hardness:
32 kN/mm²

Packing:
Sacks of 25kg (40 sacks to pallet)

Grades:
80 for coarse sandblasting CBG80
100 for medium sandblasting CBG100
120 for smooth sandblasting CBG120
180 for extra-smooth sandblasting CBG180
220 for ultra-smooth sandblasting CBG220

Film Application Solution
Iso-propional, water-based solution to enable fault-free application of films. 1 litre: RATM09

Excel Craft Knife
Excellent quality, durable, metal craft knife. Knife: RATM12
Blades (5 pack): RATM13

Safety Blades
General purpose, single edge safety blades for trimming vinyl. 100 blades per box. 100 per box: RATM10

Safety Blade Holder
Neat holder to ensure safer use of single-edged blades. RATM11
Vinyl Plotters

We offer high performance, vinyl-resist cutters, from Advanced Plotting Devices and also supply our own-branded, economical CadBlast plotter. They are suitable for cutting all our sandblast resist vinyls and Stained Glass Art Films and are compatible with a wide range of software packages.

APD 3000 Vinyl Plotter

With a range of 3 machines, we can cater for all budgets and requirements. We have worked with APD for many years and know the pedigree of the machine with hundreds of installations worldwide.

APD plotters are capable of cutting up to 2mm thick material and running at speeds of 1100mm/second, making it ideal for the high volumes producer or customers looking to cut extra thick, specialist films easily.

With the easily interchangeable knife and pen attachments, the APD plotters can also produce full size drawings generated by GlassEye Enterprise or other vector based files such as Corel Draw and Adobe Illustrator.

<table>
<thead>
<tr>
<th></th>
<th>Maximum Cutting Area</th>
<th>Maximum Material Width</th>
<th>Leg Stand</th>
<th>Dimensions W x D x H (mm)</th>
<th>Software Language Driver</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>APD 2400</td>
<td>600mm</td>
<td>685mm</td>
<td>Optional</td>
<td>250 x 250 x 825</td>
<td>Compatible with all graphics software using HP-GL format</td>
<td>2 years limited warranty</td>
</tr>
<tr>
<td>APD 3000</td>
<td>750mm</td>
<td>840mm</td>
<td>Standard</td>
<td>250 x 250 x 978</td>
<td></td>
<td></td>
</tr>
<tr>
<td>APD 4000</td>
<td>1000mm</td>
<td>1105mm</td>
<td>Standard</td>
<td>250 x 250 x 1257</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CadBlast CB 4800 Vinyl Plotter

Our own branded CadBlast cutter is ideal for customers looking for an economical solution to vinyl cutting and who wish to cut larger media.

With a cutting width of up to 1220mm and steel rollers which prevent slipping on material lengths up to 3m, the CB 4800 is ideal for cutting large resists and its 40mm x 80mm high resolution backlit screen and easy to use controls, make it ideal for customers who are new to vinyl cutting.

<table>
<thead>
<tr>
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<th>Maximum Cutting Area</th>
<th>Maximum Material Width</th>
<th>Leg Stand</th>
<th>Dimensions W x D x H (mm)</th>
<th>Software Language Driver</th>
<th>Warranty</th>
</tr>
</thead>
<tbody>
<tr>
<td>CB 4800</td>
<td>1200mm</td>
<td>1300mm</td>
<td>Standard</td>
<td>270 x 265 x 1530</td>
<td>Compatible with all graphics software using HP-GL format</td>
<td>1 year</td>
</tr>
</tbody>
</table>
Vinyls and Papers

**Sandblast Vinyl 90µm**
Available in Pale Grey transparent. Ideal for surface blasting. Commonly used for acid etching. Film has good ‘see through’ properties to aid positioning.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CBV 90-06150(2)</td>
<td>61cm x 50m (2 rolls)</td>
</tr>
<tr>
<td>CBV 90-12250</td>
<td>122cm x 50m</td>
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</table>

**Sandblast Vinyl 160µm**
Available in Black. Ideal for intermediate blasting. Also suitable for use with ColorSpray.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CBV160-06125</td>
<td>61cm x 25m</td>
</tr>
<tr>
<td>CBV160-12225</td>
<td>122cm x 25m</td>
</tr>
</tbody>
</table>

**Sandblast Vinyl 280µm**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>CBV280-06125</td>
<td>61cm x 25m</td>
</tr>
<tr>
<td>CBV280-12225</td>
<td>122cm x 25m</td>
</tr>
</tbody>
</table>

**Sandblast Vinyl 300µm**
Available in Grey. Suitable for deep sandblasting of glass. Rigid type.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBV300-06125</td>
<td>61cm x 25m</td>
</tr>
</tbody>
</table>

**Drawing Paper**
80gsm bright white drawing paper for all pen plotting requirements.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPLOTPAPER</td>
<td>61cm x 35m</td>
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</table>

**Application Paper**
100micron application tape to aid in applying vinyl cut resists.

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAPTPENWHT</td>
<td>61cm x 100m</td>
</tr>
</tbody>
</table>

Plotter Spare Parts

**APD Plotter Pens**
Red: RPLOTRPEN1
Blue: RPLOTBLPEN1
Black: RPLOTBKPen1

**APD Blade Holder**
APDHOLDER

**APD Teflon Strip**
APDISTRIp30

**Plotter Blades**
45° Knife Blade: RPLOT45KNIFE1
60° Knife Blade: RPLOT60KNIFE1

**CadBlast Plotter Pen**
CBPLOTBLPEN

**CadBlast Plotter & PenHolder**
CBHOLDER

**CadBlast Teflon Strip**
CBSTRIp48
Software & Design CDs

We offer a wide range of design CD’s with hundreds of ready-to-cut sandblast resists. For plotting designs, we offer 2 software solutions, GlassEye Enterprise and WinPCSign Pro.

**GlassEye Enterprise**
GlassEye is the most popular software for stained glass and overlay glass producers, with its huge libraries of stained glass colours, RegaBevel designs and hundreds of leaded glass designs already incorporated. With the Enterprise version, this easy-to-use design software is capable of creating Vector files and sending designs direct to a vinyl cutter, making it ideal for the leaded glass artists looking to work with sandblasting. As GlassEye cannot work with .eps files, it is only suitable to use with a selection of our design CD’s.

**WinPCSign Pro 2012**
With its easy-to-use vectorisation functions and its multitude of vinyl-cutting functions designed for the sign industry, WinPCSign Pro is an invaluable tool for the sandblast artist. The software does contain limited design functionality, but most users would create artwork in other packages such as Abode Illustrator or CorelDraw. With its ability to import and plot .eps files, WinPCSign Pro can be used with all our design CD’s.
.eps / .cdr / .scv Compatible Formats

See the full range of designs at www.regalead.co.uk/cadblastdesigncds
CadRam Sandblast Colour System

Our CadRam division has developed two systems for colouring sandblasted glass with long-lasting, high-performance resin paints, which can be blended together to create an almost infinite colour palette.

Deep Sandblast System
This system is a very simple to use technique for creating detailed colour on glass using the CadRam infill technology. With a range of 11 pigments which can be mixed to create an infinite pallete of colours glass designers are no longer limited to a small range of colours making CadRam the system the product of choice for many. The product will set to a high gloss finish within 24 hours and comes with a 10 year external guarantee.

It's so simple to use...
Step 1
Blast area you wish to colour (minimum 1.5mm depth).

Step 2
Mix the resin colour. Equal parts A & B and then add pigment.

Step 3
Apply colour into sandblasted area using pipette.

...and create stunning results!

Deep Sandblast Colour Kit
Infill: Parts A and B 500ml, Pigments: 10 colours 30ml, 50 x 1ml pipettes, 25 x Open and 25 x Closed mixing pots, Instructions. RINRESSTART
Airbrush System
Our specially formulated, low-viscosity resins use the same pigment system as the Deep-blast colour system, but can be dispensed via an airbrush. The system works wonderfully on the surface of etched glass, allowing artists to paint on the surface whilst still retaining the opacity levels required with sandblasted glass. Unlike most other systems, the paint does not need to be baked onto the surface to provide a long lasting performance.

Airbrush
Professional grade, gravity-fed airbrush with 15ml capacity hopper and 30ml siphon plastic bottle attachment. Requires compressed air.

Airbrush Base
Part A
1.25 litres or 500ml.

Airbrush Base Part A
1.25 litres or 500ml.

Pigment
500ml or 125ml. Colours: Black, Blue, Brown, Cerise, Green, Red, Ruby, Violet, Yellow and White.

Portable Compressor
Why does sandblasted glass need protection?
The sandblasting process creates an uneven glass surface and when the glass is handled, tiny pieces of dirt and grease can get into the microscopic crevices formed. Once this occurs, it's very difficult to remove the dirt and the glass will be left with unsightly marks or covered in fingerprints. It's important to coat the glass in a protective layer as soon as it's sandblasted in order to prevent this.

How to protect sandblasted glass?
Nanogate coatings provide long-term protection against water marks, dirt and fingerprints, making surfaces easier to clean in the future. Specifically designed for interior use, Nanogate is a solvent-based, reactive polymer for use on both sandblasted and chemically treated glass surfaces. Simple to use, Nanogate requires no preparation and can be applied straight from the bottle without the need for specialist equipment.

Nanogate Products
By drawing on long-standing experience within glass protection, the Nanogate coatings were developed with an understanding of the need for design flexibility for sandblasted glass.

Nanogate for Frosted Glass offers lasting protection to keep matt finished glass looking as beautiful and clean as the day it was made. However, if a colourless finish isn’t enough, then the Nanogate Coloured Coatings increase the scope for creativity by combining protection for sandblasted glass with the option for colourful designs.

How it works:
Once the solvent has evaporated and the excess material has been polished away, the coating cures fully at room temperature.
Nanogate Frosted Glass Starter Box
250ml E2C 113, 10 micro fibre sponges, 4 polishing hoods for power polisher, gloves and instructions.
NANOFROSTBOX

Nanogate 500ml E2C 113 Clear Coating
approximately 40m² coverage.
NANOE2C113

Nanogate 5 Litre E2C 113 Clear Coating
approximately 400m² coverage.
NANOE2C113L

Nano-DEC Coloured Glass Starter Box
4 colours x 60ml (red, blue, green and yellow), 125ml E2C 113 coating, 5 micro fibre sponges, gloves and instructions.
NANOCOLOURBOX

Nano-Dec 125ml Coloured Coating
approx. 10m² coverage.
Green: NANODEC103
Bright Green: NANODEC109
Red: NANODEC105
Orange Red: NANODEC100
Blue: NANODEC101
Bright Blue: NANODEC107
Yellow: NANODEC102
Grey: NANODEC104
Gold: NANODEC????
White: NANODEC????

Power Polisher
240mm diameter, 220-240V Electric.
NANOS611POL

Polishing Hoods
Pack of 10.
NANOPOLHOOD

Microfibre Sponges
Pack of 10.
NANOSPONGE

Polishing Cloths
280 x 305mm, Pack of 75.
NAN0014CLOTH

Nanogate 5 Litre E2C 113 Clear Coating
approximately 400m² coverage.
NANOE2C1135L
Instruction Books and DVDs

In conjunction with Professional Glass Consultants, industry renowned experts in the art of sandblasting, we offer a range of training materials to help those new to the sandblasting business and to help experienced blasters develop their skills and range of techniques.

Etched Glass Techniques and Designs. 144 pages. CBB00KE6TD

Glass Etching 2 Carving Techniques and Designs. 96 pages. CBB00KGE2

Sandblast Glass Etching DVDs
CBDVD1 Disk 1: Surface Etching Techniques. Running time: 87mins
CBDVD2 Disk 2: Multi-level Carving Techniques. Running time: 87mins
CBDVD3 Disk 3: Techniques for Shaded Etching. Running time: 98mins
CBDVD4 Disk 4: Designing for Glass Etching. Running time: 60mins