



Vapormatt

ARRIVALS

- SURFACE PREPARATION
- SHOT BLASTING
- SHOT PEENING
- DESCALING CLEANING DEGREASING
- PAINT STRIPPING
- COMPOSITE PREPARATION
- SELECTED AREA TREATMENT
- EDGE DEBURRING
- CONTROLLED EDGE RADIUSING
- ABRADABLE COATING REMOVAL

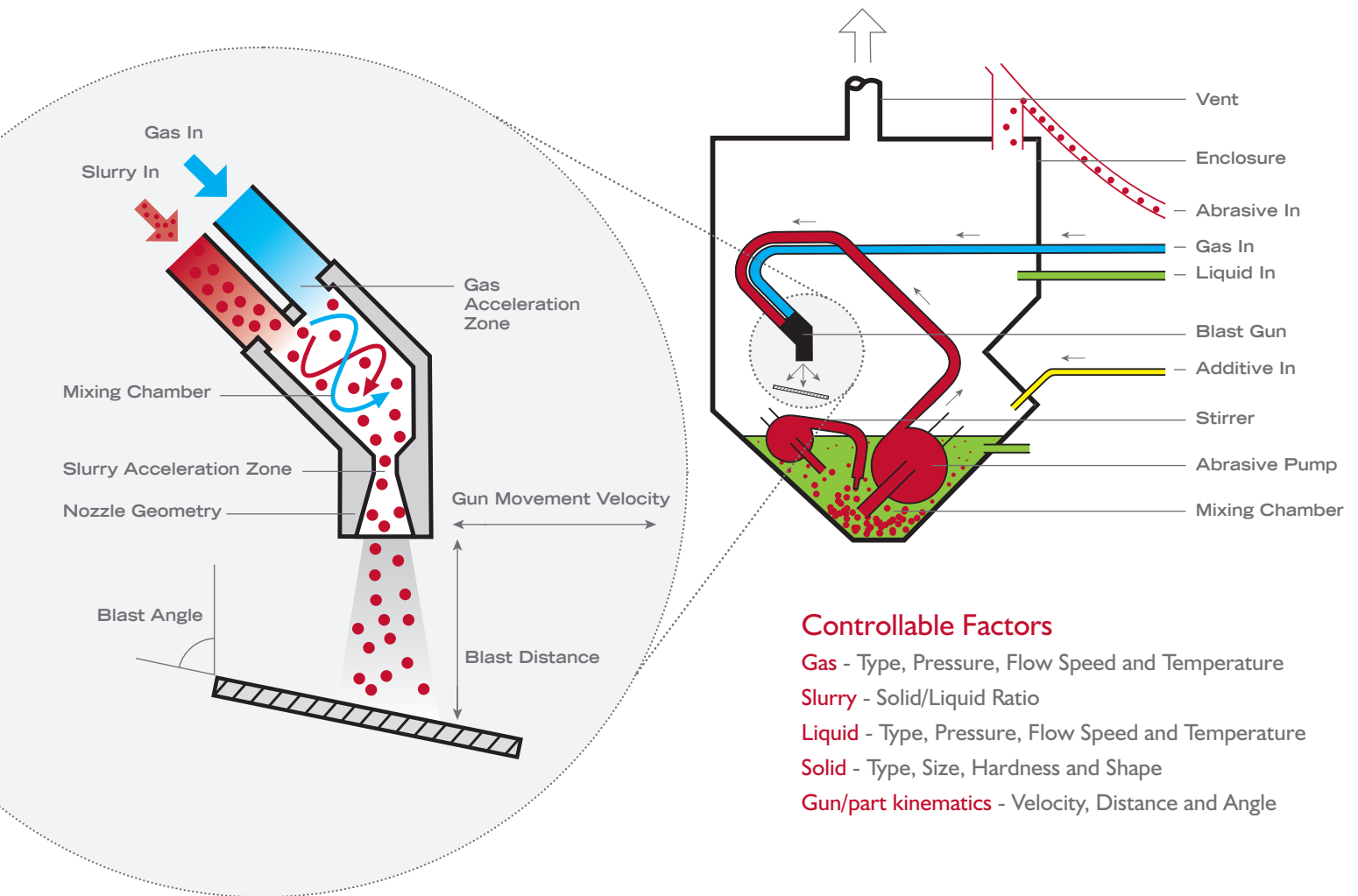


Benefits

- Controlled, reproducible results
- Extensive industry experience
- Total process control
- Global support network
- Customised design

Surface finishing by wet blasting

Wet Blast Process Control



Controllable Factors

- Gas** - Type, Pressure, Flow Speed and Temperature
- Slurry** - Solid/Liquid Ratio
- Liquid** - Type, Pressure, Flow Speed and Temperature
- Solid** - Type, Size, Hardness and Shape
- Gun/part kinematics** - Velocity, Distance and Angle

The Vapormatt Wet Blast Process

Vapormatt have taken the basic wet sandblasting technique and developed it into a sophisticated, controlled process. In essence it combines 3 phases of material (solid, liquid, gas) into a process jet that can be accurately directed at different angles and distances then traversed over the surfaces and edges to be treated.

The characteristics of each of the constituents of the process jet can be adjusted:

- Nozzle geometry
- Solid media (shape, size, hardness)
- Liquid media (pressure, chemical composition and purity)
- Gas (pressure, chemical composition and purity)

Vapormatt specialises in developing process recipes that produce very specific, desired processing effects.

Once the parameters have been identified Vapormatt equipment is designed to incorporate extremely sophisticated process control to ensure that different recipes can be selected at will, but in such a way that each is highly repeatable and consistent over the long term.

Post wet blasting process stages of rinsing, drying, and surface cleansing can similarly be controlled to produce a complete process line that can provide a totally predictable and high quality end result.



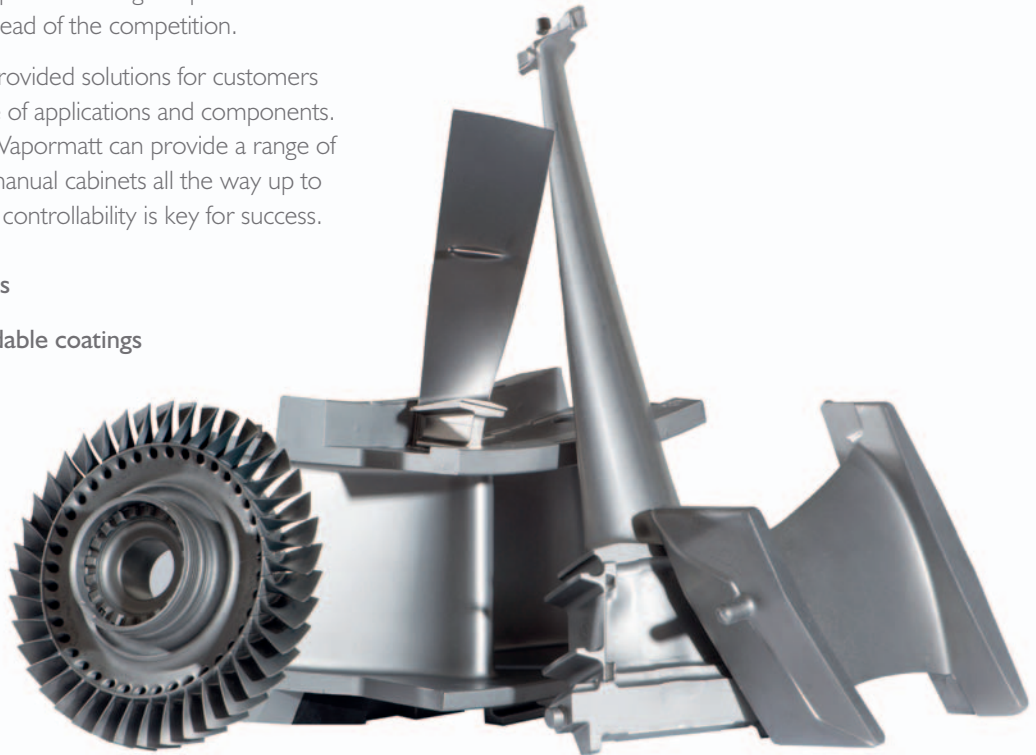
Surface finishing by wet blasting

Understanding the requirement to conform to strict process approvals Vapormatt have developed wet blasting equipment that is trusted by the OEMs and their MROs.

Using a collaborative approach means Vapormatt's wet blasting equipment is considered world leading by companies across the globe. Solely focusing on wet blasting has allowed for extensive investment into research and development making the patented Vapormatt technology a long way ahead of the competition.

For over 35 years Vapormatt have provided solutions for customers all over the globe for a diverse range of applications and components. With an extensive product portfolio Vapormatt can provide a range of wet blasting equipment from small manual cabinets all the way up to full automated CNC systems where controllability is key for success.

- Peening of turbine and fan blades
- Removal of conformal and abradable coatings
- Preparation of surfaces for bonding and painting
- Paint stripping without substrate damage
- Degreasing, de rusting and descaling of parts
- Existing equipment upgrades



Why is Vapormatt so good?

The wet blasting process is extensively used in the aerospace industry and is often specified for more delicate blasting processes where uniformity of finish and protection of the substrate are key.

Introducing a liquid into the process aids the controllability with the flowing action offering high levels of coverage and consistency; particularly on difficult or challenging shapes.

Benefits of wet blasting for aerospace components are wide ranging and include:

- No static build up, enhancing surface energy
- Eliminates all dust, to promote better surface adhesion
- Lubricating action, for lower surface Ra
- Reduced abrasive usage
- Lower wear on working parts

Vapormatt have focused on controllability and are able to enhance this with a number of patented and unique features:

- Elutriation towers for accurate media conditioning
- Low level "donut" sumps for easier loading of heavy components
- Manifold gun crowns for better, more consistent, distribution of slurry
- Extensive monitoring to aid maintenance schedules and limit operator intervention

Wet Blast Solutions

Vapormatt manufactures a wide range of equipment suitable for a large range of aerospace applications. Through consultation and collaboration with our customers we have been able to design and build a large range of machines. Our wet blasting systems are able to deliver great benefit when processing a range of aero engine and structural components.

We also offer a custom engineering service (known as Wet Blast Support Services) to help you to incorporate our Vapormatt wet blasting process technology into your existing wet blast equipment. With our extensive experience we are able to update any wet blasting equipment.

The benefits of Vapormatt processing are also available without large capital outlay. With a range of hire options available you can trial any of our systems to prove the process. Further still our contract process centres offer wet blasting as a service if you would prefer to outsource any of your surface finishing.



Vapormatt Experience



Vapormatt has been active in the development of the wet blasting for aerospace since our formation in 1978.

As wet blast process specialists, we have developed the process method and its control to highly sophisticated

levels. This has resulted in an understanding of the process to a degree where we can now control (accurately and independently) the application of a desired surface to meet individual requirements.

Our process knowledge has developed through an ever widening exposure to many different market sectors beyond the aerospace industry. However, as part of our R&D focus on the use of the wet blasting for aerospace applications,

we have developed a multitude of specialised techniques and process enhancements. Consequently, we hold or have patents applications pending covering significant areas of process control, process slurry media filtration and blast gun systems.

It is our practice to develop long term technical partnerships with our customers, this allows them collaborative access to our know-how and more importantly, our on-going core competence of wet blasting. We are sensitive to the requirement to develop certain methods in confidence and we have a variety of long term confidential partnership programs with key customers in a variety of high technology sectors.

Our expertise is nurtured through our focus on this single technology and our aim to be the world's leading wet blasting company.

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