



# Vapormatt | Jaguar

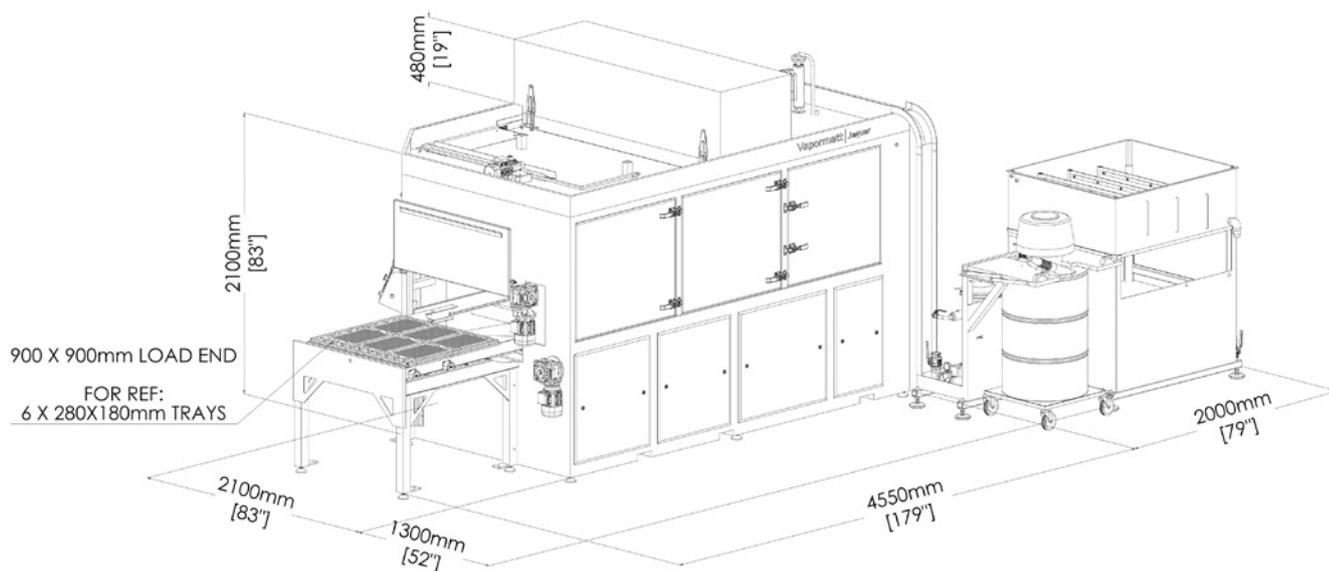


## The benefits of the Vapormatt Jaguar

- Automatic in-line, multi-stage operation – wet blast, wash, rinse and dry
- Consistent and reproducible, high-throughput processing
- Ensures complete workpiece coverage, with high penetration into bores and orifices
- Creates a fine surface finish – eliminating final hand finishing – with no substrate erosion
- Streamlined, modular water and dust-tight construction in seamless stainless steel
- Unique slurry conditioning system ensures optimum media quality



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The Vapormatt Jaguar, compact and ergonomical, has been designed to fit in with state-of-the-art production facilities. It is constructed from high-grade stainless steel, continuously welded to form a water and dust-tight robust structure.

Overall dimensions of the Jaguar are 4500mm long x 1600mm wide x 2400mm high – the smallest footprint for a machine of its kind. Weight is approximately 1500kg.

Workpieces are loaded directly on to a 900mm x 920mm processing trolley by overhead hoist or via roller conveyor system. The trolley is driven into the main wet blasting enclosure, which features a special array of twelve wet blast nozzles operating concurrently: eight nozzles above the workpiece and four below. The nozzles oscillate across the workpiece surfaces as the trolley traverses through the enclosure at a pre-set speed which can be varied in line with production needs.

The nozzle array is of a new hydrodynamic design and is fed continuously via a common manifold that supplies both the slurry cleaning media and compressed air at a pre-determined rate and mixture. The nozzles are positioned at pre-set angles to ensure complete coverage around cavities and edges and highly effective penetration into bores and orifices. Nozzle arrays are adjustable to accommodate different workpiece thicknesses. After the wet blasting stage, the work trolley progresses to the tunnel wash section. This comprises a pre-wash stage and two powered rinses that ensure all traces of blast media and debris are removed from the workpieces prior to drying. If required, a rust inhibitor can be introduced into the final rinse.

The drying stage then follows. Drying utilizes the machine's common compressed air supply to provide high pressure drying with intense cavity penetration, using strategically positioned air jets. This effectively removes all traces of moisture.

All services and support systems are enclosed within the machine and are easily accessible by removable, sound-deadening panels, for ease of maintenance.

Machine access doors are safety-interlocked and internal bulkhead lighting is included, rated to IP65. The processing enclosures have ventilation/air extraction via ducting to outside atmosphere, with the option of an air extraction/filtration unit fitted to the roof of the machine. With this unit exhausted air can be returned to the workshop.

To maintain optimum cleaning performance the Jaguar features an enclosed slurry conditioning system utilising a Vapormatt "elutriation" tower. This system automatically removes abrasive particules that have degraded below a pre-set level from the slurry to ensure consistent media integrity. Debris is deposited into a removable collection tank inside the machine. A slurry sedimentation unit is fitted as standard, as is a pumped drainage system: the latter enables the machine to be located at a distance from drain outlets. Internal distribution pipework is in Vapormatt "VSPS" abrasion-resistant polyurethane, eliminating the use of steel pipes and threads. The vortex electric slurry pump is IP55 classified and fitted with a stainless steel filter. If required there is the option of an integral wash water recycling system, linked to an automatic moving bed filtration unit.

Patents and new patent applications cover many of the unique features of the Jaguar concept.

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