

Surface Finishing and Powder Recovery Systems

where quality comes to the surface



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GUYSON

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Additive Manufacturing (AM) Dust Collectors

The Guyson AM blast cabinets are complemented with a new range of AM specified dust collectors.

The mid-range C600-AM dust collector has been designed to accompany the Euroblast AM range. The C600-AM has a host of features and options to manage potential risks including: explosion relief valve, explosion isolation valve, secondary HEPA filtration, waste bin balance pipe and level sensor minimising dust in the open atmosphere.

Euroblast 6 (AM) Finishing Station

Specifically devised for the Additive Manufacturing (AM) market Guyson offers variations of the Guyson Euroblast® 4SF, 6SF and 8SF (Suction Fed) blast cabinets. These AM blast systems, have been designed specifically for processing Stainless, Aluminium, Titanium or Inconel components, commonly used in the aerospace, automotive and medical AM sectors.

In certain conditions the powders used in AM have the potential to create explosive dust when blasted, so special provision has been made with these Guyson blast systems to mitigate those risks.

Guyson's latest robotically controlled finishing station and powder recovery system is focussed on the pre-production and production AM market. As the technology and applications naturally evolve, becoming more 'mainstream manufacturing', the demand to process production volumes of 3D printed components downstream increases.

Further, flexible extraction arm options, allows the C600-AM to be used in conjunction with powder filling and breakout station activities. Depending on the specific zone or environment, the AM dust collector can be specified with fully ATEX compliant motor, controls and switchgear.

Formula 1400 (AM) Finishing Station

Guyson's Formula AM finishing station is used by many in the Rapid Prototyping, 3D Printing and Additive Manufacturing (AM) sectors (including Prodways) to deliver value adding surface profiles to the full range of plastic prototypes.

Powder Recovery Station (PRS)

Working with our sieving and blending technology partner, Guyson have created a system that manages the post printing process using a production mentality. Operating in a safe environment, the Guyson PRS uses tried and trusted robotic blasting methodology to reveal components and manage the resultant powder. Further downstream, the contained sieving and blending operation further optimises batch control and powder recovery.

As well as replacing the arduous task of manual blasting with intelligent robotics, the Guyson PRS is designed to manage loose, partially solidified and semi sintered powder, delivering reusable powder for further processing. The Guyson PRS essentially combines the operations associated with breakout stations, air washing, blast finishing, sieving and blending into one enclosed and controlled process.

Like any production process the Guyson PRS can support continuous improvement initiatives and activities in pursuit of AM process optimisation

**For Further Information or
to Request a Quote
Contact Guyson International Ltd.**

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