

Large Blast Cabinets

blast finishing equipment

Guyson Large Blast Cabinets



Sometimes size is everything

Large cabinets for large components



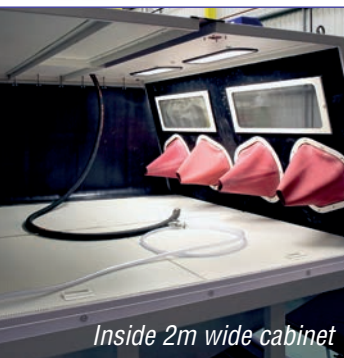
2m wide cabinet



Extended height Euroblast 10



2m wide cabinet



Inside 2m wide cabinet

Guyson International's versatile range of seven standard Euroblast® manual blast cabinets copes with most customer requirements but over recent years Guyson has experienced increased demand for ever larger, specially designed blast cabinets. There seem to be several reasons for this. Increased health and safety concerns mean that companies do not want their operators to be working for prolonged periods inside blast rooms with all that entails - having to get suited up, wearing protective (but hot and restrictive) full face helmets and working in a very noisy and dusty environment. Market changes have seen a reduction in design capabilities at a number of blast cabinet manufacturers, resulting in their product offering being restricted to only 'standard' products. There has also been a move offshore, away from UK production facilities, resulting in less flexibility and also delivery delays for these companies' UK customers. In contrast Guyson has benefited by having its own large, in-house design engineering department, equipped with the latest 3D CAD systems, as well as a vast database of cabinet variations available. Many of them have been photographed and these photos are available on the sales teams' iPads so they are able to demonstrate in the field what is possible and has already been made before, thus reassuring our customers that the design is proven and will work.

Case Studies

Among the extra-large, specially designed cabinets recently manufactured by Guyson is a two and half metre wide blast cabinet used for keying the surface of a range of military aircraft air frame components. These are loaded externally by crane onto a side-loading support frame and then manually slid into position in the cabinet's (2.5m W x 1.5m H x 1.5m D) blast chamber. Here the large air frame components can be grit blasted with a pressure fed nozzle controlled from a number of convenient armhole locations to achieve full coverage, the cabinet having a total of four large armholes spaced at intervals along the front of the machine. This cabinet was equipped with extra front bulkhead lighting as well as the roof lights and was protected by white rubber curtains, to reduce cabinet wear from overspray and to help maintain a high visibility blast environment. The system was completed with a Guyson 55 litre pressure pot, cyclone reclaimator and C800 dust collector equipped with explosion relief panel and vertical ducting.

Another recent two metre wide pressure fed cabinet system was installed for maintenance, repair and overhaul (MRO) to be carried out on aircraft landing gear. This simpler unit comprised the extra wide cabinet with flat internal flooring and came equipped with the smaller Guyson 27 litre pressure pot. This cabinet also had a four large armhole arrangement to maintain the flexibility of operator reach when using such a wide cabinet.



2.5m wide cabinet for blasting air frame components



Euroblast 9

Application dictates design

Wide range of equipment choices to suit components

A modified Guyson Euroblast 10PF (pressure fed) system was a repeat order from one of the world's leading providers of products, services and integrated solutions for oil and gas exploration who had a requirement for a large blast cabinet capable of handling long and heavy drill rod couplings whilst blast deburring the threaded area at the end of the rods.

This customer is still using the original Guyson pressure fed blast system made for them over ten years ago and now, to meet increased demand, they also needed an additional blast system, but with a twin pressure pot this time and a slightly larger cabinet. They also wanted their original blast system to be up-rated with a twin pot system to match, which Guyson successfully retrofitted.

This new blast system features a Guyson Euroblast 10PF cabinet with a side loading frame capable of handling their long tubular parts and fitted with ball bearing rollers to facilitate rotation of the component. The cabinet is equipped with a left side cut out above the side loader together with a number of differently sized templates to accommodate various pipe diameters and also a blanking plate so it can be used as a conventional blast cabinet as well. This specification was designed to deliver maximum flexibility for the customer.

The blast system includes twin 55 litre pressure pots (one for carbon steel and one for stainless steel blast media, with a changeover valve) and a single large CY600/16 cyclone. Twin blast nozzles feed into the cabinet, where there is also a manually operated turntable and removable fixturing used for locating the ends of the drill rods and helping to rotate the tubes. A Guyson C800 dust collector completes this system.

Contact Guyson now to discuss your requirements

Guyson offers a full machine design service, enabling us to create a fully costed and workable solution to meet our customers' requirements for special blast cabinets. This, coupled with a large demonstration and test facility encompassing the majority of our standard equipment, enables us to prove the surface finishing process and make recommendations as to the most appropriate blast media and process timings to undertake the job, thus enabling our customers to buy with confidence.

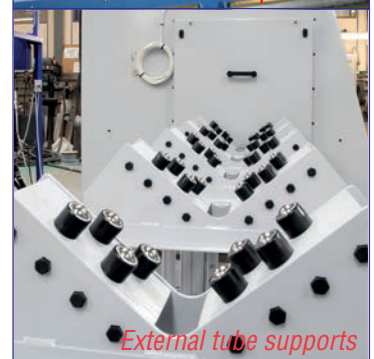
Aerospace, Oil & Gas and Energy sectors have all shown demand for these larger cabinets from Guyson and machines have been designed to accommodate a number of specific product handling solutions - a small sample of which are shown in this brochure. Why not submit your sample components for free feasibility testing to the company's extensive development workshop at Skipton, England. Contact Guyson now on +44 (0)1756 799911 and see what we could do for you.



Component support carriage



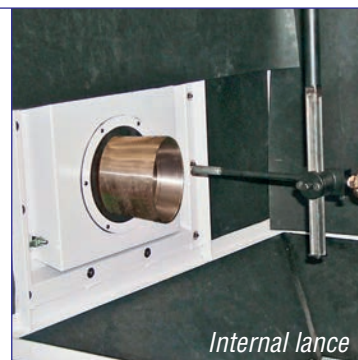
Two sided blast positions



External tube supports



2.5m wide cabinet with sideloading turntable



Internal lance



Turntable support rollers



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Guyson International



Guyson International Limited is the largest independent manufacturer of blast finishing, spray washing and ultrasonic cleaning equipment in Europe and supplies a worldwide customer base. Guyson offer automated handling solutions, where suitable, including both robot load & unload and also pick & place options.

Comprehensive ranges of automatic and manual blast cabinet systems are available to suit all production situations. Specialist applications include surface treatment of medical implants, shot peening of turbine blades and surface preparation of components such as cutting tools, to improve coating adhesion, prior to PVD coating.

Ultrasonic equipment includes bench top baths for laboratory, medical and light industrial use and ultrasonic cleaning tanks for industrial use. Microsolve systems for precision cleaning in wide range of sectors including electronics, optics, aerospace and defence, as well as multi-stage aqueous ultrasonic systems for specialised cleaning of components such as medical implants, hard disk drives, diamonds, optics etc.

Also available is a range of aqueous spray wash equipment including conveyerised tunnel washers, rotary basket washers, a PCB stencil cleaner and a compact high impact hot aqueous spray washer designed for the workshop. Full product and application information for all equipment is available on the Guyson website.

