

# Guyson International Ltd

Manufacturers of blast finishing, spray wash  
and ultrasonic cleaning equipment

## Product Information Guide



# Typical Blast Applications



## Maintenance Cleaning, Remanufacture & Refurbish

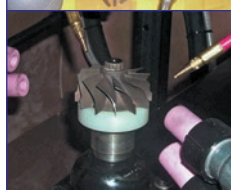
Guyson blast cabinets are successfully used in maintenance workshops, repair shops, service centres, garages and military depots on a varied component mix and can eliminate laborious hand work, chemical cleaning and environmental issues from the workshop. Ideal for automotive core remanufacture operations and refurbishing cutting tools, TCT and diamond tipped routers, saw blades, drills etc.



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## Medical & Dental Blast Finishing

Many medical prosthetic implants, such as hips and knee joints and dental implant screws are blasted to produce a precise keyed surface topography which improves adhesion of special coatings such as Hydroxyapatite to aid their integration into the bone surrounding the implantation site. Additionally grit blasting is often used to produce a 'glint free' satin finish to surgical instruments such as scalpels, forceps and scissors and by dental technicians for casting investment removal and micro deburring dental structures.



## Turbocharger Deburring and Reconditioning

Feather burrs left on the blade tips of incolloy turbocharger hot end wheels after grinding can be removed by controlled automated blasting with Guyson Turbonox stainless steel bead, which also delivers a desirable cosmetic finish without any critical dimensional change. Turbocharger components are often reconditioned prior to their rebuild and re-assembly by bead blasting, the most common form of media for this process being Turbobead (steel shot) for the initial clean and carbon removal, followed by glass bead for a final cosmetic finish.



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## Rapid Prototype Finishing

Guyson's blast finishing equipment is capable of delivering virtually any type of finish required by today's rapid prototype manufacturer. Step lines can be smoothed away, surface texture imparted, cosmetic finishing performed, surface preparation prior to painting achieved and surface brightening of metal sintered products delivered. Guyson uniquely combines expertise in unusual blast media with blast finishing techniques to impart distinctive surface finishes with uniform, consistent results.



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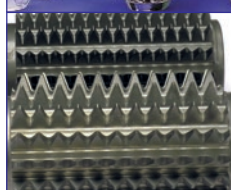
## Shot Peening

Controlled shot peening is regularly specified by the aerospace, automotive and nuclear industries to enhance component service life. Guyson Multiblast® RXS 900 glass bead peening systems have previously been installed into turbine repair centres to re-harden the turbine blade surface after they have been used for a period of time and are due for a scheduled overhaul. Glass or ceramic bead is used for peening if there is any risk of ferrous dust contamination from metal media which might result in rust. Guyson have a range of automated, including robotically controlled, blast systems to undertake shot peening.



## Engrave and Decorate Glass and Stone

Blasting can be used as an etch to produce logos and insignia on glass, pottery, cutlery, medals and items such as stone memorials and house signs. It is extremely fast in operation – a drinking glass can be etched with a measure insignia in around one second. Distinctive patterns, textures and frostings can be achieved on flat plate glass and art glass by varying media types and pressure settings.



## Surface Prep Prior to Coating and Bonding

Controlled automated blast finishing delivers a high consistency of surface topography which is beneficial for improved hard wear coating adhesion in physical vapour deposition (PVD) and thermal spray coating applications, on high performance components such as high speed drills, cutting tools and hobs. Additionally, automotive interior manufacturers can increase the effective bonding of wood veneers, leather, rubber etc to interior super-structure components, which are often plastic, with a fine blast surface etch of the host material.



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## Alloy Wheel Etching

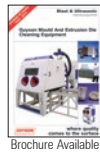
The Guyson Wheelmaster has been specifically designed for blast etching of alloy wheels and incorporates many application specific handling features that enable the operator to operate this wheel blasting system safely, without heavy lifting. The blasting process provides a fast and even light etching to remove only the chipped lacquer on virtually new wheels, whilst being capable of etching right back to bare metal if required. And, unlike traditional disc sanders, it allows both easy penetration of the blast media stream between the spokes and also very precise localised etching.



## Batch Blasting Fasteners

Guyson offer a range of tumble blasting equipment for the batch blasting of fastener components. Processes such as blast finishing, cleaning, deburring, cosmetic finishing and surface preparation can be achieved, whilst delivering fast cycle times and repeatable process quality with limited manual labour input. High performance aerospace fasteners can be found in engines, wings, fuselages, and landing gear. Other markets such as medical technologies, autosport racing, marine applications and gas turbine engines all demand aerospace quality fasteners in their applications.

# Typical Cleaning Applications



## Injection and Extrusion Die and Mould Cleaning

Ultrasonic cleaning is highly effective for injection mould cleaning and as a non-contact method of cleaning minimises any potential of damaging critical mould detail. Due to the penetrating nature of ultrasonic cleaning, it removes residues from deep down inside the internal cooling ports, vents and channels, thereby improving polymer flows. Also extrusion dies, used for items such as PVC-U windows, doors and conservatories, plastic safety barriers and industrial O-rings, can be cleaned of residue build up. This helps maintain a cleaner profile for more accurate extrusions and thus prolongs their working life.



## Industrial Maintenance Cleaning of Oil Filters

Frequently hydraulic oil filters, such as those used in power stations, get contaminated with a build up of tiny particulates from the hydraulic oil in the fine woven mesh. Traditional methods of cleaning tend to only clean the external surfaces. They do not clean effectively between the strands of the mesh. Ultrasonics is able to penetrate much deeper into the woven mesh thereby giving a more thorough clean and extending the life of the filter between scheduled maintenance cleaning intervals.



## Cleaning Plastic Tote Bins

The Guyson Marr-Line conveyerised tunnel spray wash and dry systems enables tote bins and trays to be thoroughly cleaned and dried, removing production stains, oils, contaminants, and odours. This leads to improvements in quality by protection of components and all importantly minimises cross contamination from one usage of the tote bin to the next. The wash tunnel can incorporate auto height adjusting air knives and automatic turnover bars which flip the bin through 180 degrees which allows more of the water to be blown off the surfaces.



## Precision Cleaning

Microsolve solvent cleaning systems provide high quality ultrasonic cleaning followed by vapour rinsing and freeboard drying. Typical applications include the precision cleaning of bearings and seals, pneumatic and hydraulic components and specialist optical and photonic cleaning. Many hydraulic and pneumatic components have numerous internal galleries, screw threads and internal holes that could trap small manufacturing particulates. With the use of ultrasonics in the cleaning process, agitation can be affected deep inside these complex components and they are able to be thoroughly cleaned.



## Removal of Polishing Compounds Prior to Assembly or Plating

Kerry ultrasonic cleaning systems are often chosen by manufacturers for the removal of polishing compounds, prior to final lacquering, from a very diverse range of products such as: brass musical instrument, clock faces, flatware (knives, forks, spoons), jewellery, watch cases, medical implants; almost anything bright and shiny that has to be polished. Ultrasonic cleaning can remove hours of manual labour and within minutes achieve the same exacting finishing standards on several items at a time.



## Medical Component Cleaning

During manufacture, metal medical devices and implants are subjected to contaminants such as metal debris, polishing compounds, grinding fluids and general handling soils that remain on the surface or become trapped in holes and crevices. Surface cleanliness also critically affects the success of subsequent procedures such as plating, PVD/CVD and ceramic coating and flame spraying. Ideally suited to a wide range of precision cleaning needs in the medical marketplace is the modular Microclean aqueous cleaning system (standard configuration is heated ultrasonic clean, rinse, rinse, warm air dry).



## Electronics Cleaning

Microsolve Co-Solvent systems achieve cleanliness standards to specifications including BS, IPC [Institute for Printed Circuits], ESA [European Space Agency] and MIL SPEC. The co-solvent process defluxes all types of PCBs, assembled and reworked, removes no-clean solder flux residues, and eliminates the white deposits associated with traditional single solvent and water-based detergent processes. For certain aerospace applications where ultrasonics may not be used, the co-solvent process can clean without sonics, using instead the 'rolling boil' agitation together with the properties of the co-solvent mixture itself to achieve the requisite cleanliness standards.



## Laboratory and H & S Cleaning

Guyson's Kerry branded KC and MKC ultrasonic baths are often chosen for providing effective precision cleaning on a wide variety of components such as laboratory glassware and syringes, as well as those specimens requiring cleaning prior to microscopic examination. Diving regulators and firefighter and NBC respirators must be cleaned and sanitised after usage to remove smoke stains, oils, perspiration and any cross contamination in line with regulations, similarly tattooist needles. Ultrasonic cleaning is also specified for cleaning Tam panels used in aerospace and other NDT Processes.



## Automotive Parts Cleaning

Cleanliness levels below 1 mg/m<sup>2</sup> residual contaminants have been proven on applications cleaning car air compressor component machined castings, using the Guyson Gyroforce, an eight-station carousel indexing washer. Two separate wash stations operate simultaneously, so a double wash action is achieved in the same cycle time. This is coupled with low operating costs brought about by the Gyroforce reducing the dependence on expensive air heaters, blowers or compressed air blow off systems through its spin drying system.

# MANUAL BLAST

Blast cleaning uses the enormous force generated by the impact of millions of dry angular or spherical particles in an air powered, high energy stream directed at the component through single gun or multi-gun nozzles incorporated in a manual blast cabinet.



**Euroblast 6**  
The most popular standard cabinet size fitted with top, side and front opening doors. Blast Chamber Dimensions: (mm) W1050 x D740 x H880



**Euroblast 6GL**



**Euroblast SBP**



**Euroblast Select**



**Formula 1400**  
Ideal for maintenance cleaning



**Mediblast**  
Stainless steel blast cabinet - eliminates ferrous contamination in medical component finishing

## Suction Feed

Suction feed or venturi systems are generally selected for light-to-medium production requirements.

## Pressure Feed

Designed for speed, giving faster cleaning times (up to four times faster than venturi systems) to meet higher production requirements.

Guyson manual blast cabinets offer a faster and safer alternative to labour intensive operations such as hand deburring, scraping and wire brushing, chemical cleaning, acid etching or dipping, liquid honing, knife trimming, sanding, grinding and many others. They are ideal for component producers, reconditioners and remanufacturers seeking to replace these slower and more labour intensive applications.

Guyson blast cleaning machines use compressed air to propel blast abrasives directly at the component through an exclusively designed blast gun. These clean and safe finishing operations are carried out in an illuminated cabinet from which dust is constantly removed and the blast media is recycled to provide a continuous and reliable cleaning and finishing system.

Guyson International manufactures a wide variety of manual blast equipment including two complete ranges (Formula and Euroblast) of 'standard' cabinets and further application specific cabinets for more specialised requirements. These cabinet variations include a desktop version which can be equipped with a micro blast nozzle for fine etching, a sit down version (SBP), a variable height version (Select), a stainless steel version (Mediblast) for the medical market, a flat glass handling option (GL), an alloy wheel blast machine (Wheelmaster) and a two metre square cabinet, often used for applications such as mould cleaning and aerospace MRO.

**FORMULA** - perfect for light to medium duty applications. The entry level Formula manual blast cabinet range comprises four strong and durable steel cabinets that are ideal for light industrial applications or when blasting is required on an intermittent basis, such as rapid prototype finishing.

**EUROBLAST®** - the machine of choice for heavy duty applications - highly versatile, with a huge range of component entry and handling options being available. The Euroblast range of cabinets are highly durable, rigid and tightly sealed, fabricated and welded in 16 gauge sheet steel and finished to the highest quality standards. There are seven cabinets available as standard sizes and most of these can be used in either the Suction Feed (SF) or Pressure Feed (PF) configuration.



**Wheelmaster**  
Dedicated alloy wheel blaster



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**Euroblast 2.5 metre wide side loading cabinet**  
side load facility for easier blasting of heavy or bulky components



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GUYSON STANDARD MANUAL BLAST CABINETS - INTERNAL CHAMBER SIZES							
FORMULA	F1200	F1400	F1600	F2000			
Internal blast chamber dimensions (W x D x H) mm	600 x 460 x 495	815 x 560 x 591	1070 x 760 x 770	1165 x 760 x 1028			
EUROBLAST	2	4	6	7	8	9	10
Internal blast chamber dimensions (W x D x H) mm	660 x 480 x 500	800 x 540 x 715	1050 x 740 x 880	1480 x 900 x 880	1050 x 1050 x 880	1200 x 1200 x 1325	1480 x 1480 x 1145

# AUTOMATED BLAST

Automated blast systems offer great potential for introducing cost reductions, productivity enhancements and quality improvements. Initial equipment costs can be recouped from labour reductions and increases in productive time substantial quality increases and reduction of rejects.

Automated blast equipment has major advantages over manual, hand-operated blast cabinets in achieving consistent production of superior quality finishes. Critical, when applying, for instance, a fine media etch surface preparation to enhance coating adhesion on medical implants.

Taking automation onto another level, robotically controlled blast systems can enable precision shot peening of complex shapes and help eliminate possible under and over peening of components such as turbine blades, critical in the aerospace industry. Benefits are also found with the elimination of RSI from workers where repetitive blasting tasks are undertaken. Also robots enable the consistent handling of heavy components or when blasting hazardous substrates or working in hazardous environments.

Advances in automated blast equipment design coupled with greater usage of computerised controls and highly visual HMI interfaces provide operators with constant feedback and can now deliver documentable validation and integrity of the blasting processes. This allows clients with highly critical components to increase volumes and expand their product offerings, whilst achieving quality levels far in excess of what was possible with manual blast systems.



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## RXS - ROTATING INDEXING SPINDLE

The highly versatile RXS Multiblast® rotary indexing spindle blast system allows continuous, selective or overall surface treatment or finishing of individual components produced in volume. Designed and engineered to ensure a high level of process and machine control, the RXS ensures an accurate, consistent and uniform finish to every part. By eliminating the inevitable variations in hand processing, component quality, cost control and productivity can be dramatically increased. The RXS range is available in three standard machine sizes, RXS200, RXS400 and RXS900. The model required is defined by the component envelope and multiple variations are available for each configuration.



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## ROBOT CONTROLLED BLASTING

Guyson are recommending full adoption of robotic blasting for clients who manufacture precision components with demanding surface engineering topography requirements and/or any subsequent validation issues, typically medical implants and aerospace turbine blades. Options include having the blast nozzle manipulated around the fixed or rotating component or having the component manipulated by robotic arm underneath a fixed gun nozzle. Adoption of these sophisticated new precision robotic blasting techniques can also impact on daily running cost savings in compressed air consumption, lower media costs and a smaller and cheaper dust collector, also with reduced waste disposal issues. With the introduction of new industry proven CAD/CAM software technology, accurate 3D simulations of the blast treatment on the component, showing actual blast cone coverage of all critical areas can be developed in a matter of hours.



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## MULTIBLAST® RSB

Guyson offers the single spindle (RSB) as a first step on the single piece automation ladder. Rotating components in front of fixed or moving blast guns gives a consistent quality of surface finish coupled with high productivity, which cannot be achieved in manual blast systems. The Guyson RSB machine delivers consistent, cost effective finishing results adding value to your components. The component sits on a rotating central spindle (though it can be static if that suits the component) or table and the blast gun arrangement traverses vertically and sometimes horizontally around the component to produce the precise coverage required. The automated blast cycle, generally controlled by a PLC provides flexible process control of all the machine variables to achieve the required finish.



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## TUMBLEBLAST®

Guyson's T40 and T50 Tumbleblast® and EB1 Endless Belt systems offer cost effective blast finishing for batch processing. Ideal for cleaning, deburring, deflashing, cosmetic finishing or surface treatment of small metal components such as aerospace fasteners, screws, bolts, nuts, washers, circlips etc. These compact batch blast machines all deliver:

- Fast cycle times
- Repeatable process quality
- Safe and easy operation



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# PRECISION CLEANING

Guyson Kerry ultrasonic systems efficiently remove contaminants such as polishing and lapping compounds, grinding abrasives, cutting oils, swarf, fluxes and general environmental contamination from a wide range of components and sub-assemblies.

## MICROSOLVE

Microsolve cleaning systems attain the highest cleaning standards yet keep running costs low, an ideal trike replacement system.

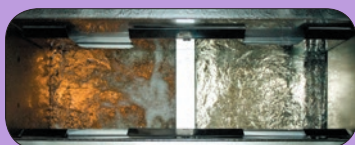
Features unique to the Microsolve range—triple coil reflux cooling, vapour break, 150% freeboard, auto top-up and solvent monitoring—ensure that systems are safe and comply fully with environmental and safety legislation.

These design features also mean that Microsolve systems are able to operate with low, predictable solvent usage and customers enjoy low, predictable running costs.

The Microsolve cleaning process handles, with ease, applications such as removal of polishing compounds, maintenance cleaning of power generation system components, and flux removal from PCBs, including no-clean and lead-free solder flux residues.

'Autotrans' work transfer systems ensure consistent, repeatable quality whilst increasing throughput, and also contribute to cost reductions by controlling the speed of basket movement through the vapour zone, thus reducing solvent drag-out caused by disturbance of the vapour blanket. All Autotrans transporters can integrate with feed and exit conveyors or load and unload tables for fully automatic operation.

Microsolves are available as either Mono or Co-Solvent systems and in a range of standard sizes up to an internal tank dimension of 525mm length x 415mm width x 350mm depth.



**Microsolve 350**  
cleaning system with enclosure

## MICROCLEAN

The standard Microclean four stage aqueous cleaning system (heated ultrasonic clean, rinse, rinse, warm air dry) meets a wide range of cleaning needs in aerospace, automotive, electronics and other industries. Closed loop high purity deionised water rinsing provides organic and ionic cleanliness superior to MIL standard. The machines can also be specified for high precision cleaning without ultrasonics for processes which do not require their use. Standard Microclean features include weir overflow to all wet stages.



**Microclean four stage**  
cleaning system with enclosure



**Microclean seven stage cleaning system**

Options include: pre-clean module with oil separator for heavy duty cleaning, ultrasonics to rinse stages, vertical agitation to all wet stages, double capacity hot air drying for increased throughput. The Microclean's modular design means that additional stages can be added to meet a variety of process requirements.

Microclean systems may be operated manually or fitted with Autotrans Mk4 automation, where the Microclean's PLC-based control system interfaces with the Autotrans to provide fully automatic operation.

## PULSATRON KC AND MKC BATHS

KC and MKC ultrasonic baths offer the performance and reliability needed to meet the demands of many applications.

Available in a range of sizes from 2 to 22 litre KC baths are easy to use. The MKC bath range are microprocessor controlled allowing the user to pre-set exact cleaning times and temperatures, ensuring the same high level of cleanliness every time.



Leaflets Available

## KS INDUSTRIAL ULTRASONIC TANKS AND UCR/CRD WASH, RINSE & DRY SYSTEMS

### High performance cleaning systems

The Kerry KS and UCR ultrasonic units have been designed to achieve optimum cleaning results. Ultrasonic transducers bonded to the tank base provide high performance and reliability together with uniform distribution of the ultrasonic energy. The frequency is tuned to the individual tank/transducer combination and then optimised under normal usage conditions with frequency sweep and fully automatic tuning.

Standard KS and UCR systems operate at 38 kHz ( $\pm 10\%$ ).

- Exceptionally operator friendly
- Controller automatically selects last-used settings at switch on.
- 4-keypad membrane control panel is easy to use.
- LEDs show the status of power, heater and sonics.
- Simply touching the Select keypad toggles the LCD display through set time, set temperature, run time and run temperature.
- Solution temperature may be set in the range 20°C to 80°C in 1°C increments.
- Sonics time may be set in the range 0.1 to 99.9 minutes in 0.1 min increments, or to constant when sonics may be switched on and off manually.



**Kerry KS450**



**Kerry UCR1500**

## CLEAN RINSE DRY (CRD)

The Pulsatron CRD 450 is a three stage system providing ultrasonic cleaning with heating, immersion rinse weiring to drain, a hand held spray for second rinse (DI optional), and hot air dry.



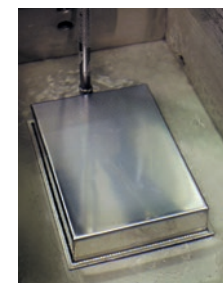
## KST SUBMERSIBLE TRANSDUCERS

Kerry Pulsatron KST transducers are designed for applications such as retrofit to existing cleaning tanks or incorporation into new machines on an OEM basis. All KST transducers are manufactured from 316L stainless steel, with hard chrome plated radiating faces for durability.

KST submersible ultrasonic transducers are available either in standard configurations or to suit your specific requirements. Standard generators operate at 38 kHz ( $\pm 10\%$ ), with frequency sweep for optimum performance. However, KST's also offer the option of Primewave® control, which allows variable or split frequency, switchable anywhere between 25 kHz and 120 kHz, and variable power control.



Leaflet Available



# SPRAY WASHING

Surface soils and contamination can be effectively removed from a wide range of components by the action of spraying hot pressurised water, lightly dosed with safe aqueous solution made up of a specially formulated neutral or alkaline detergent.

## ORBIT ROTARY BASKET WASHERS

Fast, Effective and Economical Cleaning and Degreasing

The Orbit washer is an industrial quality, water based spray washer, built for tough cleaning needs. Efficiency and long life are guaranteed from the heavy gauge 304 stainless steel construction and thick thermal insulation.

Rapid cleaning of all component surfaces with safe detergents is assured by rotating components in the motor driven basket in front of V-pattern spray jets supplied by a high pressure 4 bar pump.



MODEL	600	800
Basket Diameter (mm)	620	820
Max Load Height (mm)	400	400
Max Load Weight (kg) Concentric loading	50	50
Width (mm)	1195	1325
Depth (mm)	1090	1255
Depth (with lid open)	1200	1400
Machine Height (to top of lid) (mm)	1190	1235
Loading Height (mm)	775	775
Pump flow rate (ltr/min)	100 @45 psi	100 @60 psi
Spray Pressure (bar)	4.2	4.2
Tank Capacity (litres)	100	125
Heater Capacity (kW)	6	6
Typical Temp. °C	40-65	40-65
<b>Services</b>		
Electricity:	400v 3Phase + Neutral + Earth 50Hz	
Mains water:	½ inch BSP	
Drainage:	1 inch BSP	

## MARR-LINE

Aqueous Conveyorised Wash & Dry Machines

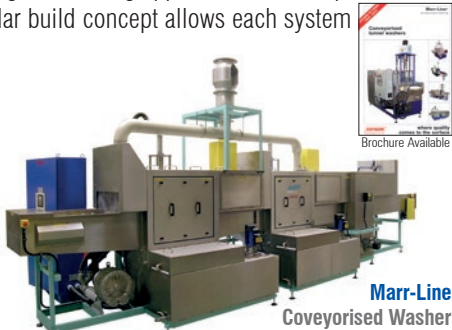
The Guyson Marr-Line range provides a tailored solution for most washing, rinsing, drying and coating applications. The superb flexibility of the modular build concept allows each system to be configured precisely to suit your specific needs.

From a basic two stage wash and dry specification to a multistage system incorporating four or more separate stages, there is a configuration to suit every requirement. Standard conveyor widths are between 200 and 600 mm, with a normal tunnel height of 200 mm. Other widths and heights can be accommodated to suit different component sizes and production volumes.

The Guyson Marr-Line conveyorised wash system provides the very latest in safe aqueous technologies, ideally suitable to incorporate into a modern cellular workflow environment.

High flow spray jets deliver maximum power in both wash and rinse sections, driven through stainless pumps and pipework. Full stainless construction throughout ensures that your Marr-Line will remain corrosion free throughout its life cycle. All heated tanks are fully lagged for maximum heat conservation and have an automatic water fill system that allows for continuous running. Low water level sensors will switch off the machine, safeguarding the equipment in the event of failure.

Marr-Line component rinsing not only removes excess wash solution but also delivers high cosmetic component quality standards with spot and stain free surfaces if used with de-ionised water. Component corrosion protection is available with 'oil spray' (and air knife removal of the excess) after rinsing and there are also in-line phosphating options.



## HIGH PRODUCTIVITY WASHER FOR LEAN MANUFACTURING

The Guyson Gyroforce is an eight-station carousel indexing washer and the unique Guyson spray system gives amazing cleaning results. Two separate wash stations operate simultaneously, so a double wash action is achieved in the same cycle time.

The Gyroforce design allows one operator to both load and unload the machine from one location and work several machines in a cell simultaneously. The unique indexing table with rotating component fixtures at both the wash and dry stations delivers the most flexible, high quality, cleaning action available today.

### Very Low Operating Costs

The low operating cost benefit of the Gyroforce comes in the drying section by reducing the dependence on expensive air heaters, blowers or compressed air blow off systems. This has been achieved and still the Gyroforce is able to deliver 100% dry components. In one application, €5,000 per year energy savings were demonstrated compared to traditional techniques.

The Guyson Gyroforce with its simple clip in fixtures enables component changeover in minutes. The washer is then ready to process alternative parts without the need to change wash jet or drying nozzle positions – giving great flexibility and potential cost savings.

Minimal operator involvement ensures cleaning results are always of the same high quality.



**Gyroforce**  
Carousel Indexing Washer

# Contacts

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# Blast Media, Spares & Service



At Guyson we are committed to delivering excellent Customer Service, from your initial enquiry through design, manufacture and delivery, to after sales support via our commercial and technical service teams.

## Blast Media

We stock over 60 types and sizes of blast media, from best sellers Honite (glass bead) and Saftigrit (brown and white alumina, aluminium oxide) to Ceramic (fused zirconia), and would be delighted to quote media for use in any kind of blast system.

For prices or to order, please call 01756 799911, Freephone (UK only) 0800 328 5999, or fax 01756 790213. Ask us about current offers for buying in larger quantities. For next day delivery please order before 3 pm for 1-9 bags, or before 10 am for larger quantities. (Pack size is normally 25kg.)

For details of media types, applications and downloadable data sheets, please see the 'Blast Abrasives' page on our website.

For advice from our experienced staff on which blast media will best suit your application, please call us. We can process sample components for you, so that you can select from a variety of finishes the one you prefer. You are very welcome to come to our test and demonstration centre in Skipton, where we hold stocks of media of all types.

## Spare Parts and Service

For advice about spare parts or to order, please call our Customer Service team on 01756 799911, Freephone (UK only) 0800 328 5999, or fax 01756 790213.

### Spare parts

For downloadable parts lists and photographic guides to help you identify which part you need, please go to the 'Spare Parts' page on our website.

Spares delivery can be flexible with standard parts available ex stock. Technical advice is also available as part of our After Sales service and engineers are available to carry out any repairs or maintenance you may require.

## Protecting your Investment

At Guyson, we offer a wide range of service contracts which allow for planned maintenance visits to be carried out at regular intervals by Guyson service personnel. These regular service visits ensure that our engineers can help you to keep your Guyson equipment running at its optimum level of performance for years to come.

If you would like more information about service contracts, please contact one of our friendly staff who will be happy to help with your enquiry.

