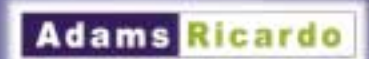


# iBS

INDUSTRIAL  
BLOWER SERVICES

*Total solutions for  
Process Handling,  
Blower & Vacuum Systems*





*Design, supply,  
installation,  
maintenance,  
refurbishment...*



**Based in Hanwell, west London, Industrial Blower Services has been serving industry since 1987, supplying, maintaining and repairing blowers, conveying systems and related machinery.**

After considerable investment in expertise, we can now boast a complete design, supply and installation facility for bulk storage and distribution of raw materials and ingredients.

This new operation is run by a highly experienced team working at our second premises in East Bergholt, Suffolk and extends the company's capabilities to make IBS a truly complete and competitive operator in all types of industry.



**Complete Design, Supply and Installation of bulk storage and distribution for all raw materials and ingredients, including:**

- Silos
- Activators and screw dischargers
- Screw conveyors
- Chain and flight conveyors
- Band conveyors
- Belt and bucket elevators
- Metal detectors and magnets
- Blowers – distribution and land-based
- Tanker fill stations
- Level control and monitoring
- Ring Main and Stop End distribution systems to mixers and service bins including diverters
- Sack tipping and IBC points
- Minor ingredients addition
- Weighing systems: in-line and load-cell based
- Liquids addition to mixers, including flow meters and pumps
- Infrastructure – walkways, access platforms and ladders
- Complete LEV systems for mixing rooms, ingredients plants and sack tip points

**Other functions that could be used include:**

**Intake and Pre Cleaning –**  
Bulk or IBC intake systems complete with all necessary receiving, conveying and elevating plant together with primary protection and cleaning systems including Drum Sieves, Magnets and primary aspiration systems.

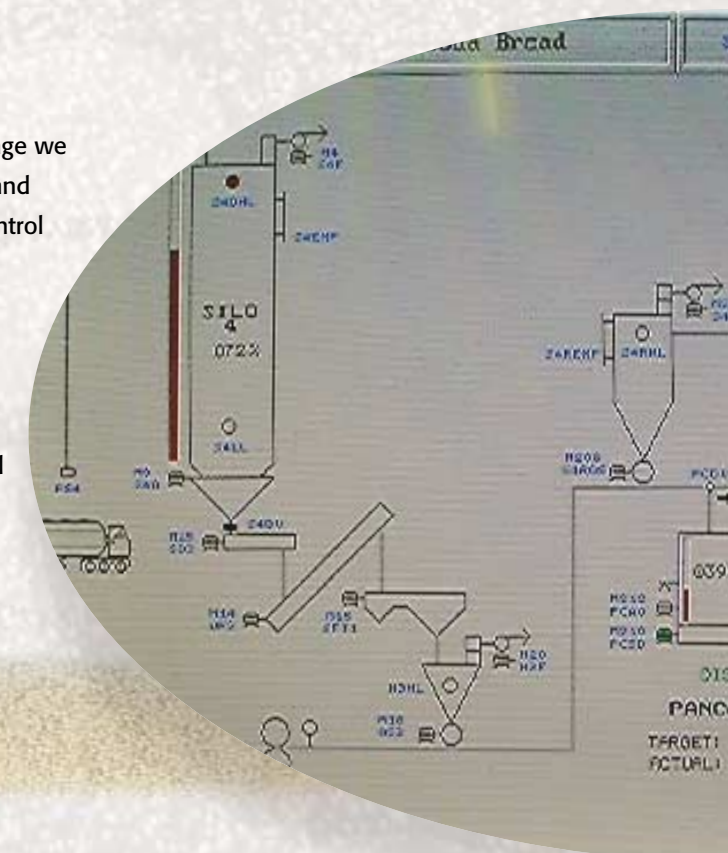
**Screen Room and Conditioning –**  
All plant and equipment needed for the modern screen room inclusive of Flotation Destoners, Milling Separators, Aspirators, Specific Gravity Separators, Indented Cylinders, Spiral Separators, Scourers, Dampeners and control systems.

**Electrical Installation and Control Systems**

From the initial concept stage we can undertake the design and installation of complete control system packages, from sub mains through to comprehensive control packages for all processes within the modern site, employing the latest in graphic control using state-of-the-art PC/PLC technology.

**Complete Refurbishment of Existing Plant, including:**

- Silos – relocation and refurbishment
- Blowers, diverters, blowing seals, sifters
- Fluidisation packages – including blowers, solenoid valves, tiles and pipework



total service





**Blowers & conveying solutions...**

Since our inception in 1987 much of our success has been the result of an uncompromising approach to customer service and efficiency. We meet customer requirements and expectations by:

- Understanding our customers' production lines and equipment
- Harnessing the modern, state-of-the-art repair and reconditioning technologies
- Quality of service, exchange facilities and ancillary spares
- Expert advice

The same approach is adopted regardless of the size of the requirement.

We constantly monitor the rapid advancements in industrial blower technology and equipment and are able to tailor our service to the repair and reconditioning of the newest and oldest machinery. In doing so we provide industry with valuable maintenance costcutting opportunities.



**Supply and renovation of new and used blower units of any make any size any age for conveying powders and granules and for aeration.**



Our experienced staff are able to analyse the production manager's machinery problem and advise on the most cost-effective solution and how quickly and efficiently it can be met.

Our aim is to correct the disruption of faltering machinery quickly, painlessly and cost-effectively.



**conveying solutions**

**blowers from stock  
blowers for hire**

**exchange facilities**

A large range of blowers are held in stock to create a speedy service exchange facility. If you can't afford the time it takes to repair your blower, simply send it to us (or we'll collect) and, provided that we have a suitable replacement, we will forward one of our stock units immediately, keeping your downtime to an absolute minimum. Our stock units can also be hired or purchased, again with immediate delivery.







**vacuum compressors**

Thanks to an excellent and long-established business relationship with vacuum pump experts, Blackmer Hammond, IBS can offer first class solutions to pumping, vacuum and hydraulic cooling requirements.

**RAL 485 vacuum pump**

- Air cooled**  
Integral high-capacity twin fans
- Cooler running**  
Improved reliability
- Lightweight**  
Bare shaft weight only 110kg
- Compact**  
Close-coupled, combination multi-valve
- Low operating cost**  
Increased durability and low power requirement
- Speed range**  
900rpm to 1500rpm
- Drives**  
PTO, hydraulic, belt, diesel and electric
- Accessories**  
Full range of accessories available

| Technical Specifications                                 | RAL 485                          |
|----------------------------------------------------------|----------------------------------|
| <b>Maximum Air Flow (FAD) @ 1500 rpm</b>                 | 450 m <sup>3</sup> /hr (265 cfm) |
| <b>Maximum Pressure (Gauge)</b>                          | 1.0 bar (15 psi)                 |
| <b>Maximum Vacuum</b> – intermittent* (Gauge)            | 0.95 bar (28 in. Hg)             |
| – continuous* (Gauge)                                    | 0.82 bar (24 in. Hg)             |
| <b>Maximum Rotation Speed</b>                            | 1500 rpm                         |
| <b>Shaft Power Required</b> – @1500 rpm @1.0 bar (Gauge) | 18kW/24hp                        |
| <b>Power @ Maximum Vacuum</b> – (absorbed at shaft)      | 12kW/16hp                        |
| <b>Weight</b> – (bare shaft machine)                     | 110kg / 242lb                    |
| <b>Rotation – standard</b>                               | CW                               |
| *Option – please specify when ordering                   | CCW                              |



**CHALLENGER vacuum pumps**



| Technical Specifications                            | 998                              |
|-----------------------------------------------------|----------------------------------|
| <b>Maximum Air Flow (FAD) @ 1500 rpm</b>            | 710 m <sup>3</sup> /hr (415 cfm) |
| <b>Maximum Pressure (Gauge)</b>                     | 1.5 bar (22 psi)                 |
| <b>Maximum Vacuum (Gauge)</b><br>Intermittent       | 0.95 bar (28 in. Hg)             |
| Continuous                                          | 0.80 bar (24 in. Hg)             |
| <b>Power Absorbed @ maximum pressure – 1500 rpm</b> | 33 kW (44 hp)                    |
| <b>Weight</b>                                       | 132 kg (291 lb)                  |
| <b>Speed Range</b>                                  | 900-1500 rpm                     |

- High capacity
- High vacuum
- Compact
- Lightweight
- Aircooled

**hydraulic coolers**

**hydrive series**

- Unique design**  
Compact size allows for easy installation
- Built for performance**  
Constructed from stainless steel materials
- Maintenance friendly**  
Easy to read restriction gauge and reservoir drain
- Options and accessories**  
Including complete hydraulic system packages



Hardening the bores in vacuum pumps can increase their durability dramatically, adding economy by extending the life of the unit.

**sliding vane compressors**



Along with their use in air movement, gas compressors, powder handling and water treatment, sliding vane vacuum pumps are widely used on vacuum tankers and gully emptiers.

IBS support all truck builder specialists along with end user/ rental companies.



## Equipment for Hire

We can offer equipment for hire on a long or short term basis.

- Fully packaged sets ready to install
- Pressure differentials up to 1000 mbar
- Volumes from 0.7m<sup>3</sup>/min to 90m<sup>3</sup>/min per unit
- Variable speed drive to optimise performance and lower cost operation
- Sound proofed
- Units based in various UK locations for immediate delivery

We can also arrange

- Emergency breakdown cover reducing downtime and production losses
- Short-term demand for extra compressed air
- Minimised downtime during planned overhauls
- Testing of new systems

## rotary seals



Blowers for hire in their transport frames, ready to install.



## liquid ring blowers

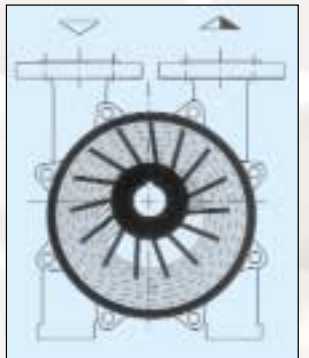
## side-channel blowers

These pumps are widely used in the process of sterilization, concentration, drying, impregnation, plastic extrusion, degassing and extraction of non-condensable gas from condensers used in industries such as chemical, pharmaceutical, food, pulp and paper, sugar, textile and power plants as well as in hospitals.

Both liquid ring and side-channel blowers are used in water waste treatment processes.



Exploded view of the component parts of a liquid ring blower.







## Air movement and Vacuum Systems



In addition to our ability to supply and repair all makes of vacuum pumps, machinery and spares, IBS are proud of our appointment as official distributors of Busch vacuum systems.

We can offer distribution and skilled support for the systems, which benefits both the manufacturer and customer. Working closely with our suppliers, we can specify, build and install turnkey systems to optimally suit your specific requirements.

Vacuum systems guarantee economical, high-grade and environmentally safe process in all areas of industry. Our engineers will provide expertise and advice on not only the best solution for your application, but also on the latest legislation such as Atex and IPPC.



# vacuum systems



*sliding vane*

*liquid ring*

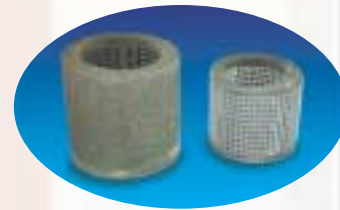
*side channel*

*hook & claw*



## Spare Parts and Accessories

The stock and supply of ancillary spare parts forms another important aspect of the IBS operation.



Spares for most types of blowers, blower sets and vacuum systems are available; intake filter elements and assemblies, filter foams, non-return and pressure relief valves are just a few of the commonly replaced items kept in stock for immediate despatch.

## Metal Spraying

Metal spraying is a valuable asset amongst our services. It is a cost-effective, worn surface reclamation process and can eliminate the expense of new, replacement parts.

It is a technically advanced method of restoring worn components and surfaces to their original specification and tolerance.

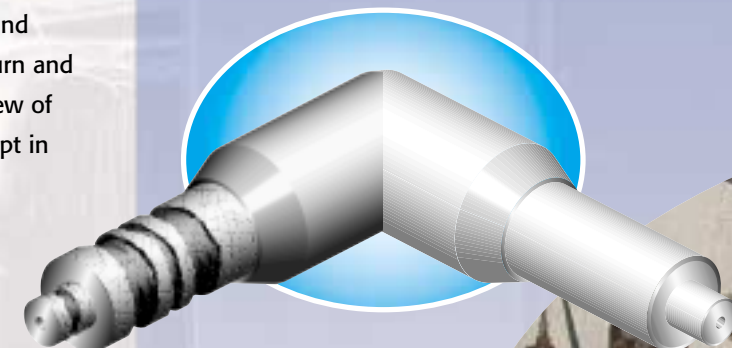
Metal spray has incredible bond strength and can be applied very precisely, leaving otherwise redundant components as good as new and extremely hard wearing.

A wide variety of materials can be reclaimed this way, including mild steel, stainless steel, cast iron, low alloy steels, aluminium and brass.



### Benefits

- Minimised expense on replacement parts
- Worn components restored to their original condition
- Reduced machinery downtime
- Guaranteed quality
- Fast, professional service and delivery



*Pitted, scored and generally worn out components can be restored to their original condition.*





# Industrial Blower Services



**facility design  
and installation**

**blowers & blower sets  
new and reconditioned**

**exchange facilities**

**blowers for hire**

**rotary seal repairs**

**sliding vane compressors**

**vacuum pumps & systems**

**liquid ring technology**

**side channel blowers**

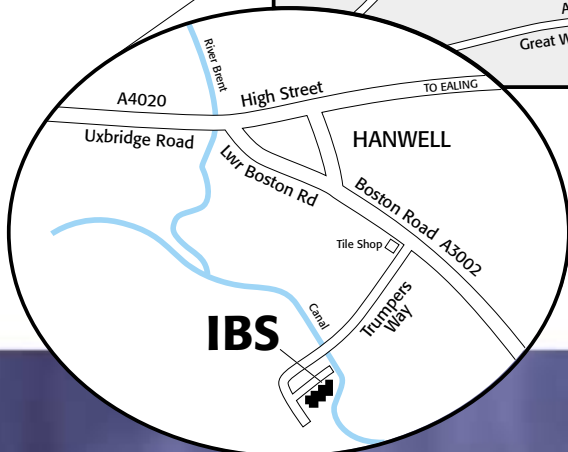
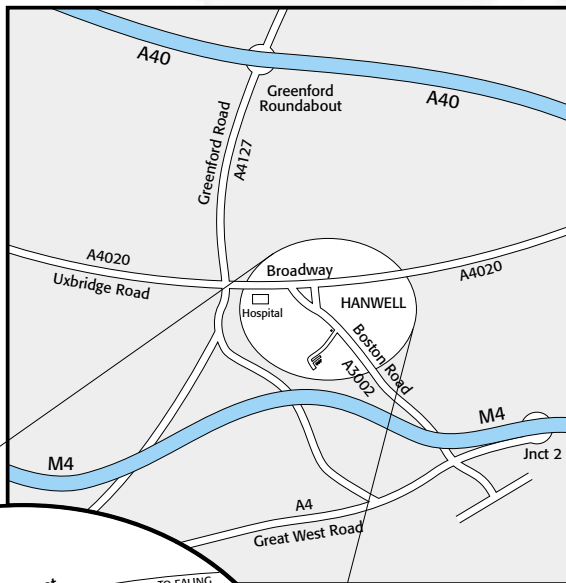
**hydraulic coolers**

**screw compressors**

**spares & accessories**

**metal spraying**

*where  
to find  
IBS*



Unit 6, River Brent Business Park  
Trumplers Way, Hanwell, London W7 2QA  
Tel: 020 8571 3988 Fax: 020 8571 3955  
E-mail: [sales@ibsbowers.com](mailto:sales@ibsbowers.com)

[www.ibsbowers.com](http://www.ibsbowers.com)



## Guarantee of Quality

IBS are now registered under ISO9002 and all our work carries a full twelve month warranty.