



BGB REPAIRS & REFURBISHMENTS



BGB REPAIR - SERVICE



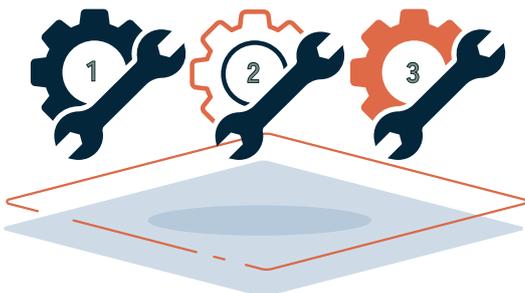
1. Send BGB photos of the item(s) to be repaired for a quick assessment



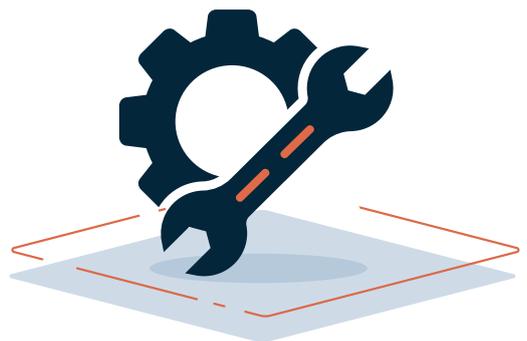
2. Complete a BGB 'Return Form' including a provisional PO number



3. Ship the products into BGB as a "TEMPORARY EXPORT"



4. BGB will assess the unit(s) and provide you with a quote based on our graded system



5. BGB will repair the units within 30 days of receipt of the PO
(You must amend / raise the PO to the correct value)



6. BGB will advise when items are ready to be collected

BGB REPAIR - GRADING

Typical Grading Structure:



Grade 1 (Warranty 12 months)

- > Administration (Goods Audit / Commercial Invoice / Product Passport)
- > Product Diagnostics:
 - * Cleaning
 - * Measurement Checks
 - * Product & Insulation Test
- > Machining
- > Minor Component Replacement
- > Product Assessment
 - * Measurement Checks
 - * Product & Insulation Integrity Retest
- > Balancing
- > Second Stage Administration / Product Passport / Dispatch



Grade 2 (Warranty 12 months)

As Per Grade 1 +

- > Disassemble
 - * Modular Process
 - * Moulding Process
- > Reassemble or Mould
 - * Replacement of Components with Reclaimed Parts
 - * Basic Rewiring
 - * Soldering Upgrade Where Needed
 - * Modular or Moulding



Grade 3 (Warranty 24 months)

As Per Grade 2 +

- > One or More Replacements of:

* Rings	* Brushes
* Bearings	* PCB's
* Major Rewire	* Housing
* Seals	* Silver Plating (where necessary)



Beyond repair?
We could buy it from you

Note: Slip ring repair only, *Kit sets can be replaced at extra cost.
Any slip ring not listed as a Grade can be repaired and quoted on a case by case basis.
*Kit sets defined as "Selected ancillary components to the parent unit"

BGB REPAIR - THEORY

The Inertia Principle

The Renewables industry should, by its nature, be leading the way in the development and implementation of Sustainable practices. In support of such principles and to ensure we meet our moral and social requirements we apply the Inertia Principle to our Repairs service. The key elements are;

1. We do not Repair what is not broken
2. We do not Remanufacture what can be Repaired
3. We do not Recycle what can be Remanufactured

Additionally, if we see an opportunity for items to be Repurposed then this also takes the lead on Recycling of goods.



THE INERTIA PRINCIPLE
By Walter Stahel

- Do not repair what is not broken
- Do not remanufacture something that can be repaired
- Do not recycle a product that can be remanufactured
- Replace or treat only the smallest possible part in order to maintain the existing economic value

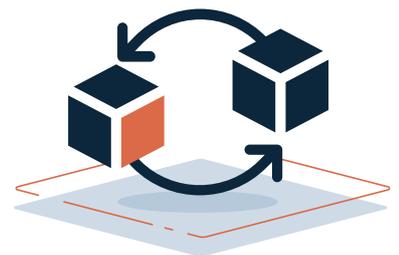


These ethical processes start at the Product Development process with our Design Engineering teams thinking Circular. This results in the manufacture of more robust products, thus increasing the time necessary between service intervals. Additionally, we make sure that new products lend themselves to being repaired and where possible, most, if not all of the material is recyclable. This again supports Sustainable practices and moves us from a traditional linear model of Make, Use, Dispose to one of Circular thinking where we make, use, repair, remanufacture, repurpose or recycle.

Circular Economy

Repairs Exchange

We understand that down time is extremely expensive. Consequently, we have developed a Stock and Exchange practice to significantly reduce the leadtime on repairs, allowing for a rapid return. This offering may not be for all clients, as there is often an initial investment to buy and stock products. As soon as a Repaired unit is received or upon the Customer calling off their stock, items will be dispatched within 24 hours. Overall minimum stock quantities are to be agreed but is all included in the price of the service.



BGB REPAIR - PROCESS

Procurement of Scrap Units

In the unlikely event that the product is beyond economical repair, it could be that we offer you the price of the scrap value from your next repair or purchase of either a new or refurbished unit, subject to availability. This not only supports our clients environmental credentials but it also removes any administrative burden and costs for logistics.



Assessment

There could be occasions where an assessment fee is chargeable. This is typical when a grading structure is not yet in place. Without such a structure, the product in for repair will require one of our engineers to investigate any faults and if feasible, source and secure component parts. In these situations, we take the client through our process, keeping them up to date on progress.

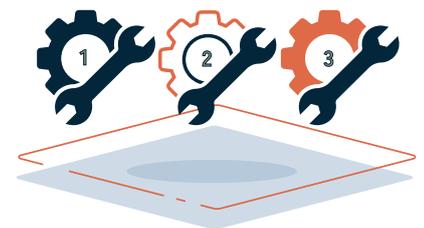
Grading & Pricing Options

To ensure our clients receive great value, we typically operate on a 3 tier grading system:

Grade 1 consists of a full strip down of a product, deep clean, ring maintenance, wiring inspection, reassemble, balance and test.

Grade 2 is the same as Grade 1 but with the inclusion of minor component parts being replaced.

Grade 3 is the same as Grades 1 and 2 but with the replacement of critical component parts being replaced and potential ring replating.



BGB REPAIR - QUALITY

Peace of Mind

Our Brand reputation speaks for itself, as do our accreditation to industry standards for, Quality (ISO9001), Environmental (ISO 14001) and Health & Safety standards (ISO 45001). We Repair and Remanufacture with great pride and precision. Not only that, but every repair is subject to appropriate tests and quality inspections prior to dispatch, giving the customer complete peace of mind. Warranties are offered on each grade of repair.



Did You Know?

BGB has provided slip ring systems to many wind OEMs since the early 1990's and have produced **over 1 Million** rotary solutions for the wind industry in the past 10 years



PROVIDING ENGINEERING SOLUTIONS SINCE 1976

BGB Repair Team
1-2 Turnpike Close,
Grantham, Lincolnshire
NG31 7XU
United Kingdom



North & South America

Tel: +1 804 451 5211

Europe And Rest Of World

Tel: +44 (0) 1476 576 280

sales@bgbinnovation.com



@bgb_innovation