



Preventive Maintenance for Maximum Efficiency and Sustainability

The patented Shock Pulse Technology we developed optimizes automated industrial boiler cleaning, combining years of experience and innovation with Swiss precision and quality craftsmanship. Over 1,100 installed Shock Pulse Generators (SPG) worldwide keep challenging boiler areas in waste, industrial, coal power plants, and process plants permanently clean. Operators confirm significantly extended boiler operating times and higher efficiency, resulting in sustainable and economical plant operations.

With the preventive maintenance concept and service packages SVC1 and SVC2 for the Shock Pulse Generators, type SPGr, uninterrupted operation is ensured, maintenance at the customer's site is simplified, and operational stability is maintained. After the replacement of wear parts by certified service technicians, the SPGr is ready for smooth operation. Preventive maintenance now also includes the reconditioning of wear parts.



The reliable operational performance of the SPGr allows for preventive maintenance. This includes various maintenance cycles with easy-to-handle service packages. The clear packaging facilitates easy inspection of the work performed.

How is the process carried out?

Your distribution partner organizes the service package for you and takes it back after the maintenance is completed. The collected service packages are returned to Explosion Power. In Niederlenz, the wear parts are inspected and, if necessary, sorted out. Subsequently, the parts undergo an extensive reconditioning process and are sent back to Explosion Power.

The residual materials generated are sorted and properly recycled. By reconditioning the parts and thus eliminating the need for new production, 15 kg of raw materials are saved per service package. The environmental balance shows that even a single reconditioning can save around 140,000 environmental impact points (UBP) per service package. This is equivalent to approximately 530 kWh, which is the private electricity consumption of a person living in Switzerland for half a year.

How is quality ensured?

The reconditioned parts undergo rigorous testing. Although they may be visually distinguishable from new parts after reconditioning, there is no difference in functionality. The same quality standards apply to reconditioned parts as to new ones.

The reconditioning process is elaborate and does not provide a financial advantage to Explosion Power. However, Explosion Power, its distribution partners, and customers contribute to reducing environmental impact and position themselves as industry leaders by developing innovative and sustainable solutions.

How often is maintenance required?

Maintenance is required every 7,000 Shock Pulses, utilizing the corresponding service packages, which makes service interventions efficient and predictable. The service packages eliminate the need to order individual components, simplifying storage and shipping. Scheduled maintenance thus makes the process simpler and more predictable, ensuring the SPGr remains operational. The returned wear parts are reconditioned, making them sustainably reusable with the same quality standards as new parts.

Explosion Power has the expertise to recondition the parts so that their quality matches that of newly manufactured parts. Together with the operational data from the SPG LogView, they form the basis for optimizing boiler cleaning effectiveness.



Want to learn more? Contact us here:

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