

Ex Machines

Ex design concepts have enabled the safe use of electrical equipment in hazardous areas of production. However, as with all electrical equipment, regular maintenance is essential to ensure peak performance - yet supporting Ex Machines comes with an additional challenge which is to ensure that all unique Ex safety features included in the original design and manufacturing of the equipment are not comprised during the removal, installation and overhaul / repair process.

IECEX Certified Service Facilities Scheme

Quartzelec has been awarded the international standard IEC 60079-19 under the IECEX certified service facilities scheme - an internationally recognised compliance Certification Scheme that covers the assessment and on-site audit of organisations that provide services such as repair, overhaul and modification of plant used by the Ex industry. This accreditation provides the necessary assurance that our repair and overhaul work to all Ex equipment will be undertaken according to the strict requirements of the IECEX Scheme to the International Standard IEC 60079-19.

Key Capabilities

- Fully equipped facilities to work on Ex Machines
- Competent personnel, trained under the requirements of the IECEX scheme
- In-depth analysis on the condition of the equipment
- Range of service and maintenance options
- Thorough testing and Quartzelec assurance that the product can be returned safely to service
- 24/7 support service

Types of Ex Protection

Quartzelec are fully equipped and capable of working on machines based on the following protection concepts:

Ex n

Non Sparking and not capable of igniting an Ex environment

Ex d

Flameproof, withstanding internal explosion and preventing transmission to the external environment

Ex e

Increased Safety, preventing excessive temperatures and occurrence of arcs and sparks

Ex p

Purged and Pressurised, preventing entry of hazardous atmosphere into the apparatus

Maintenance and Service Options

Based on the priorities of the machine and the requirements of the customer, Quartzelec can provide a tailored scope, suggesting various maintenance and refurbishment solutions including:

- Design and machine engineering
- Repair and refurbishment
- Installation and commissioning
- Site service
- Major overhauls
- Replacement machines

Supporting Ex Certified Products available



Terminal Boxes

We are able to offer a full range of Ex certified terminal boxes and parts to suit new machines or replacement terminal boxes and parts for pre-ATEX machines.



Rotoguard

Rotoguard systems, for detecting rotor earth faults and other Ex certified equipment, such as over-voltage protection devices, can be serviced and/or replaced as required.



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