

Spare parts analysis

We offer analyses and studies for data centers.



Active spare parts analysis is essential for the optimal definition, identification, procurement and supply of spare parts and for inventory and cost optimisation. A tailored spare parts package is developed for each data center using a method independent from the manufacturer on the basis of a Failure Modes and Effects Analysis (FMEA). This results in a store of spare parts specifically tailored to the requirements and specifications of a data center. Installations and components are assessed in terms of their relevance and replenishment time.

This assessment is used as the basis for a determination of the actual need, a reduction in the TCO (Total cost of Ownership) and a decrease in failure / reaction times.

TCO optimisation

Our spare parts analysis is based on our FMECA method. This is used to find a spare parts strategy with the minimal TCO (Total Cost of Ownership).

The following costs are included in the consideration:

- Failure costs including loss of image where this can be estimated
- Storage costs at various levels (on site, central warehouse, manufacturer)
- Material costs
- Repair costs

The aim of this is to create a spare parts list showing the critical components, the quantities to be kept in stock and the recommended storage location.

Our services

(available complete or as modules)

FME(C)A – Failure Mode, Effects (and Criticality) Analysis

- Detailed breakdown of the system
- Identification of possible faults and investigation of their potential impacts
- Qualitative assessment using a risk matrix
- Qualitative assessment of optimisation measures

Spare parts analysis

- System FMECA to identify critical plants
- Plants FMECA to identify critical components in the previously plants installations
- Creation of a detailed results report with a recommendation for the most cost-effective spare parts concept