



Fahrzeuginstandhaltung

Obsolescence management

Guaranteeing the availability
of your vehicles and spare parts.

The length of time that spare parts are available is often shorter than the life of the rail vehicles they belong to. In addition to stockpiling obsolete components, our obsolescence management team also deals with developing replacement solutions, such as 1:1 reconstructions – sometimes even as 3D printed products. This allows us to extend the life cycle of your components and, naturally, your vehicles!

Challenge

The cycles in which rail-related components are being developed and evolved are becoming ever shorter. This means increasingly that older components are being discontinued by suppliers. Not having access to replacement parts can have serious consequences for vehicle keepers and operators, such as unnecessarily long idle times, which can lead to fines being imposed, for example.

Our offer

Our obsolescence management team helps you to avoid the costly failures that can result from component discontinuation.

In addition to stockpiling and producing reconstructions of components, for example control electronics components or traction and mechanical components, our obsolescence management services also include developing replacement solutions. We replace your electronic and mechanical components as well as your vehicles' interior elements as quickly as possible.

Obsolescence risk analysis

Using obsolescence risk analysis, we can identify what needs to be undertaken even before components are discontinued and build sustainable solutions around this information. Obsolescence risk analysis utili-

ses data that has been collected, analyses of the maintenance status and assessments of the degree of ageing. We use this data to plan a strategy that is fine-tuned to your needs, for example, if a vehicle redesign requires the substitution of the entire system, or in order to secure the long-term availability of obsolete or essential components. As well as repairing components, the obsolescence management team offers other services – from securing lifetime buys to managing old parts.

Lifetime buy

Our efficient warehousing system means we can supply you with the components you need right up until when your rail vehicles reach their end of life. Our storage facilities, which include dry cabinets, nitrogen cabinets, special packaging and special con-

tainers, can accommodate almost any type of component.

Substitution and adaptation

Substitution refers to replacing parts or components with equivalent solutions that have the same properties so that the component can usually be put into operation immediately. With adaptations, the discontinued component is replaced. In this case, it is possible that the component differs from the original component in terms of its structural dimensions and maybe other properties as well. Adjustments must therefore be made to the system before the component is used in order to provide the same function. Extensive tests confirm the suitability of the substitutes and adapted solutions.

Refurbishment

Wear and dirt have a detrimental effect on how components function and in the worst-case scenario can lead to the total failure of a system. We remove contamination, renew aged components (e.g. batteries, capacitors, relays or switches), professionally clean the components (e.g. using dry ice, professional rinsing technology or ultrasound) and repair damage. We also rectify design flaws at this stage wherever possible.

Reconstruction and redesign

We reconstruct and redesign parts based on original specifications and standards where no substitute is available or where reconstruction is the more economical solution. In certain circumstances, 3D printing provides an affordable solution, for instance, where only small quantities need to be produced or for components made from synthetics, aluminium or steel that have long delivery times. To do this, we rely on the expertise and capacities of our cross-sector network “Mobility goes Additive”.

Old parts management

We recondition removed components – taken from scrapped vehicles, for example – to make them functional again. As a result of our many years of experience refurbishing old parts, we also maintain a stocked supply of components from older vehicles.

Your benefits

The discontinuation of components by equipment manufacturers no longer poses a problem for you. Our obsolescence management team will reduce your vehicle downtimes and thus the cost risk to a minimum. There is no need for in-house warehousing either. We will provide you with solutions even in difficult cases and where the vehicles are very old.