MAN PrimeServ Workshops
Repair expertise
Unscheduled plant shutdowns caused by damage require a rapid response, expert cause analysis and high-quality repair measures.

In its role as OEM, MAN Diesel & Turbo has decades of fleet experience and comprehensive know-how when it comes to repairs. MAN PrimeServ customers benefit from our worldwide network of workshops that have been specifically equipped for the diagnosis and repair of turbomachinery and process gas screw compressors.

We understand all types of wear mechanisms affecting turbomachinery. Typical wear and damage scenarios can be quickly analysed by our specialist staff based on many years of experience. This enables individually planned measures designed specifically for the particular status and plant to be integrated into the repair process.

All modifications undertaken by MAN PrimeServ on the original machine are documented, thus making it possible to create a detailed machine history. This enables access at all times to the complete documentation when planning and performing repairs.

**Technical assessment**

All parts to be examined are – where required – initially disassembled and undergo specialist cleaning. A wide range of mechanical and chemical cleaning processes are available.

State-of-the-art testing procedures as well as optical and tactile measurement systems are used during the technical assessment to ensure precise evaluation of the relevant components. In addition, detailed material analyses can be carried out in the accredited MAN Diesel & Turbo laboratory.

Based on long years of experience of specific damage scenarios, the causes of damage can be identified in a root cause analysis. After the analyses have been
completed, the customer is presented with a comprehensive status assessment together with possible solutions.

**Repair**

The MAN PrimeServ workshops have access to state-of-the-art technologies and equipment, including the laser welding centre. In addition to numerous mechanical processing methods, equipment for low-speed and high-speed balancing of all sizes of rotor is available.

Optimal methods and technologies are exclusively used that take into account the original material. All repaired parts are designed to withstand the relevant stresses. In addition, where possible the original dimensions of parts are restored, which enables future replaceability with existing spare parts.

Damaged or worn blades, impellers and other spare parts can be remade at any time in OEM quality based on available documentation. Unknown designs can also be manufactured using 3D measurements and reverse engineering.

In its capacity as OEM, MAN Diesel & Turbo is continually enhancing its machine designs to conform to the current state of the art. These improvements can normally also be applied to older machines. With their OEM competence, MAN PrimeServ workshops are qualified to undertake machine design optimisations in their repair projects in addition to repair and overhaul activities. In these projects, improvements to efficiency levels, reliability, corrosion resistance and fatigue strength can also be performed depending on requirements. Machine optimisation can normally be performed without requiring any additional time.

Safety is the number one priority at MAN PrimeServ. Detailed quality controls following each production step ensure high levels of safety, precision and reliability.

Various modern test stands are available for conducting test runs after the repair process. This allows functionality and compliance with performance parameters to be checked.

In its service workshops MAN PrimeServ offers expert and rapid repairs for unscheduled shutdowns. Please speak to your local contact person.