

# Engineering Services

Partnering with customers to achieve better performance in emissions, efficiency, reliability, sustainability and lower running costs



**MÄRKISCHES WERK**

The Next Level of Performance.®



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# Engineering Services

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## **Märkisches Werk Engineering Services**

Extraordinary engines demand extraordinary engineering. You need a partner who has many years of experience combined with cutting edge research and development and the ability to anticipate the market's needs. We are the industry's leading cylinder head system specialist; we constantly look for innovative ways to enhance and improve our products, using new materials, designs and coatings to extend the life of your entire cylinder head system and ensure sustainability is built into each component.

The MWH Innovation Center has the know-how, capabilities and tools to support customers when it comes to complex questions and problems within valve train systems.

The more precisely your cylinder head system components interact, the more efficiently your engine runs. MWH has the insight and experience to determine systematically how each component should interact to deliver optimal performance. Our development methodology derives from more than 80 years of experience designing, manufacturing and overhauling cylinder head components for large-bore engines.

Learn more at [www.mwh.de/en/innovation-engineering/](http://www.mwh.de/en/innovation-engineering/) or contact us to see how we can support with your next project.

Examples of MW Engineering Services include:

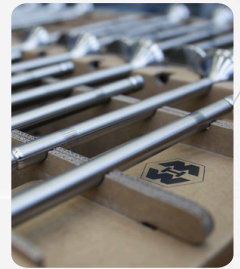
### **System design & simulation**

Comprehensive, holistic valve train system design approach using advanced FE analysis incl. numerical valve wear prediction



### **Material selection**

MWH's exacting material specifications, incl. proprietary MW WR Superalloys, are crucial to optimal performance



### **Prototype manufacturing**

Short lead time for prototype batch sizes tailored to your needs and exacting specifications



### **In-house pre-validation**

Rigorous in-house component testing gives you confidence your engine will perform, before going into the field



### **Field testing & system optimization**

Holistic approach integrated across manufacturing, cost, functionality, and performance



### **Lifecycle improvements**

Continuous product and process improvements - MWH is already working on the solutions to your future problems



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