

TURBOCHARGING

**MXP®**

## Dedicated turbocharger for marine auxiliary engines



First dedicated turbocharger from ABB Turbocharging designed in a development cooperation with IHI Corporation. Specifically for small bore medium-speed marine auxiliary diesel engine platforms with up to 2 MW power output.

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01 The MXP turbocharger for marine auxiliary engines

MXP is a dedicated turbocharger with a simplified design, offering greater value to engine builders and operators of marine auxiliary engines which have power output of up to 2 MW.

### Dedicated turbocharger

With a commitment to segment and application specific product development, ABB Turbocharging with IHI Corporation have designed MXP in a development cooperation to fulfill the specific operation needs of the marine auxiliary market. This dedicated turbocharger requires fewer parts, simplifying its operation. It enables optimum performance for auxiliary engine applications, and easy user-friendly maintenance.

### Optimized design

MXP provides high performance turbocharging in part load conditions to meet requirements for auxiliary engines' actual operation range. Also optimized for excellent load response behavior, MXP delivers high efficiency at part load with no additional air assistance required.

The simplified, yet robust design enables trouble-free operation under HFO conditions. "Designed for service" it allows for condition-based maintenance (CBM), contributing to lower operational expenditure.

Combining optimized efficiency and reduced fuel consumption, with competitive first costs, means lower total cost of ownership can be realized. MXP is also IMO II compliant with no additional after-treatment required.

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### Customer value

- Dedicated for marine auxiliary diesel engines < 2 MW power output
  - Improved part load performance supports fuel savings
  - Optimized load response behavior
  - Robust design for HFO capability
  - IMO II compliance, without any additional measures
  - Design for easy service and operation
  - Easy crew maintenance with standard tools
  - Digital support for CBM with issues resolution
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02 Reduce total cost of ownership with MXP

### **Design-for-service**

Essential to the customer-centric design is the user-friendly maintenance concept of MXP, giving crew the flexibility to independently maintain the turbocharger wherever and whenever necessary, using standard tools while the vessel is operational.

Reliability and safe operations were also fundamental in development of this self-service maintenance concept. The turbocharger allows flexible service scheduling with CBM, while performance levels are sustained, and there is no compromise to operation during exchange intervals. In addition, ABB Turbocharging will support crew maintenance with an intuitive digital, interactive self-service guide for CBM.

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