## **MAN Energy Solutions**Future in the making



# PMI Adaptive Cylinder Control (ACCO) MAN Asset+

MAN Energy Solutions takes engine tuning to the next level with Performance Measurement Indicator (PMI) Adaptive Cylinder Control. Using a patented algorithm, the closed-loop control ensures that each individual cylinder always operates at its optimal cylinder pressure. This gives you the optimal engine performance and lowest possible fuel consumption at all times.

#### Automatic engine tuning based on real-time monitoring

PMI ACCo is a fully automatic system that makes engine tuning easier than ever. Running PMI ACCo ensures you always have the lowest possible fuel consumption – and that includes automatic adjustment for fuel variations.

PMI ACCo is one of many MAN Asset+ solutions helping you to improve the functionality of your equipment, comply with environmental regulations, and advance the decarbonization of your operations.



### Lowest possible fuel consumption at all times

The algorithm adjusts each individual cylinder's fuel index and exhaust valve operation for optimal performance.



#### **Optimal engine performance**

Fully automatic optimal engine performance during and after engine running mode changes

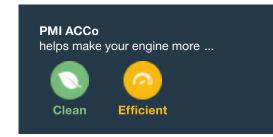


#### Increased reliability

If an individual PMI sensor fails, the affected cylinder's autotuning is deactivated while the remaining cylinders continue automatic operation.



PMI ACCo is a fully automatic system that constantly helps secure optimal engine tuning regardless of engine load, load range, load changes, and fuel quality variations.



#### Improved performance compared with PMI Autotuning

	PMI Autotuning	PMI ACCo
Activation of tuning	Activated when pressing button on MOP	Always activated above 10 % engine load
Load range	25 – 100 %	10 – 100 %
Stable fuel index needed for activation	Yes	No
Input calorific value of fuel	Yes	No
PMI pressure sensor failure	Whole system deactivated	Only specific cylinder deactivated

#### Save on fuel

In general, it can be estimated that for every 3 bar below the maximum design pressure, the engine consumes on average 1 g/kWh of additional fuel. With ACCo operating close to 100% of the time, experience has shown a potential fuel saving of 1 g/kWh SFOC.

#### Available for all ME/ME-C engines

PMI ACCo is available for all ME/ME-C engine types and can be selected as an addition to the standard engine design. ACCo for ME-C is standard on all dual fuel and Mk. 10.7 engines. From Q3 2024, ACCo will also be available for ME-B engines to provide the same benefits of fully automatic combustion balancing and optimum fuel oil consumption. However, ACCo for ME-B engines is only available for dot3 and dot5 engines.

#### **MAN Energy Solutions**

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