

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.



Increased reliability

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



Optimal engine performance

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

PMI ACCo

MAN Asset+

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.

PMI ACCo

helps make your engine more ...



Clean



Efficient

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.

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