



OPTIMIZING FUEL EFFICIENCY, IMPROVING PERFORMANCE

MAK™ FUEL EFFICIENCY OPTIMIZATION SOLUTIONS



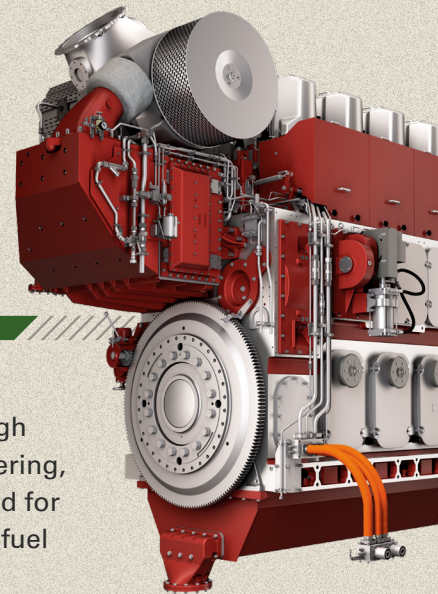


SUPPORT THAT SUSTAINS

With a MaK™ engine at the heart of your vessel, you get more than dependable power. We work with you to help maximize performance throughout the full engine lifecycle. That includes helping you optimize fuel consumption today while keeping you on track to improve efficiency for years to come.

We know that operators face the never-ending challenge of balancing operational pressure and rising fuel costs with increasingly stringent environmental mandates. It's why our fuel efficiency optimization solutions are designed to deliver more than simple technical upgrades. They help chart a path for more sustainable business success by managing cost pressures, helping support regulatory compliance, and maximizing operational efficiency.

DRIVING CONTINUOUS FLEET-WIDE EFFICIENCY



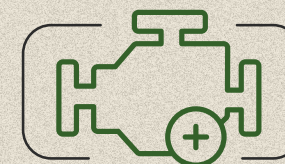
The needs of every fleet are different. That's why we developed an approach to fuel efficiency optimization that aligns with your specific operational requirements. Through a unique blend of genuine OEM components, expert servicing, and advanced engineering, we deliver targeted performance upgrades for MaK engines. Each solution is designed for a particular application and operating profile, helping increase power while reducing fuel consumption and related greenhouse gas (GHG) emissions.

OUR OFFERINGS



OPTIMIZE FOR TODAY

Start by maximizing what you already have. The M 25 combinator upgrade enhances the efficiency of pulse-charged M 25 C and non-C engines, helping reduce fuel consumption while maintaining vessel speed, all without replacing major engine components.



ENHANCE WITH RETROFIT

Take the next step with targeted hardware. For vessels with Controllable Pitch Propellers (CPP), installing a Cylinder Bypass Valve (CBV) allows the engine to run at variable speed without losing efficiency, resulting in fuel savings of up to 20%.*



SECURE LONG-TERM EFFICIENCY

Future-proof your fleet with advanced efficiency upgrades. By optimizing valve timing and turbochargers, we help you to extend turbocharger maintenance intervals and reduce both fuel consumption and GHG emissions, all while maintaining rated power and complying with NOx limits.

THE BOTTOM LINE

Significantly reduce fuel consumption and greenhouse gas emissions.*

Better match engine performance and vessel operating profile.

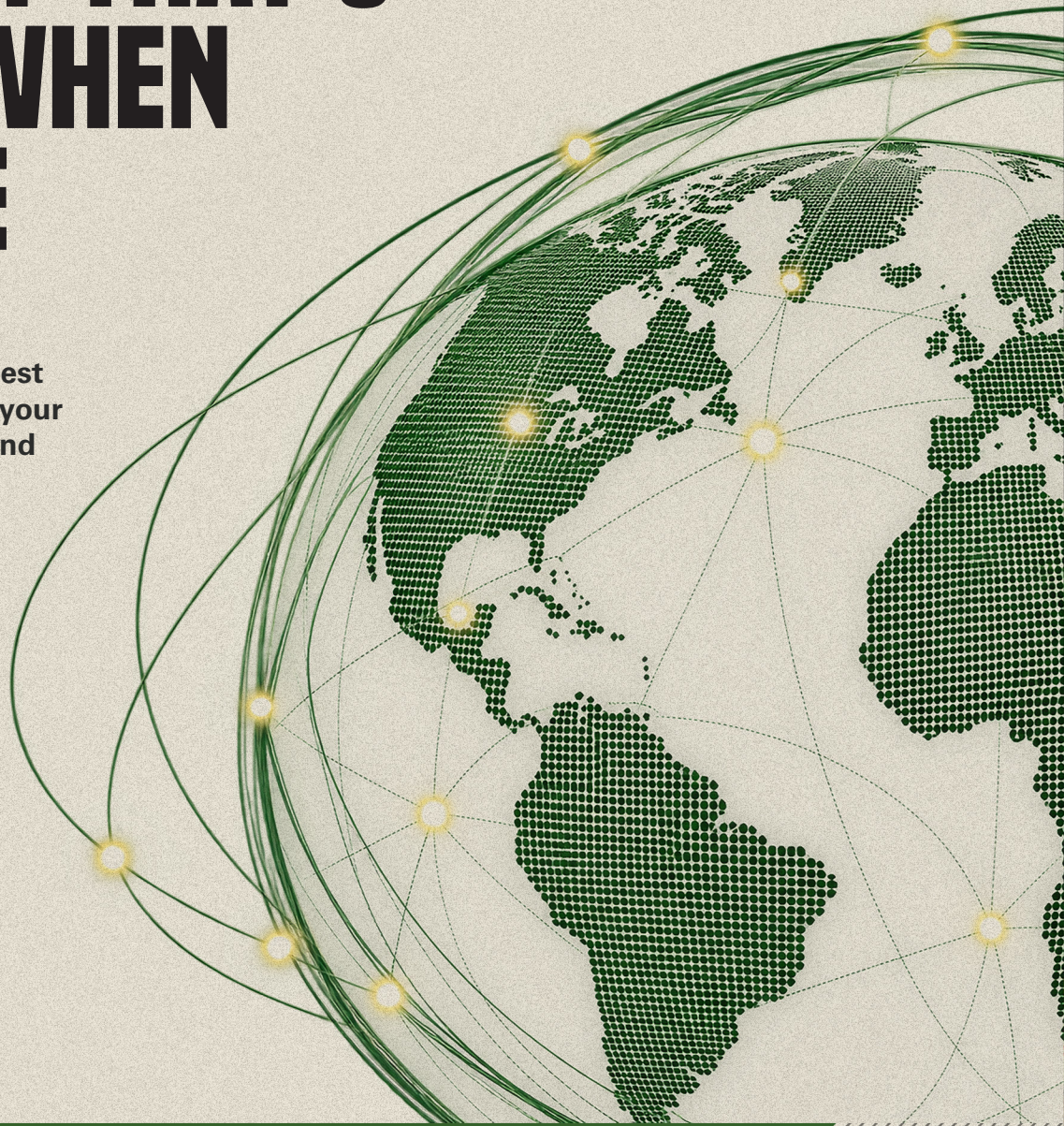
Maintain performance and uptime.

*when compared to constant engine speed and standard compressor curve, for M 25 Combinator upgrade. When compared to stock engines before CBV retrofit and standard combinator curve. When compared to engines with standard camshaft and turbocharger, for M 43 C upgrade.



SUPPORT THAT'S READY WHEN YOU ARE

MaK's dealer and service experts help identify the best fuel optimization path for your vessel, operating profile, and lifecycle needs.



READY TO OPTIMIZE?

Talk to your MaK expert to identify the best fuel optimization solution for your vessel and operating profile.

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