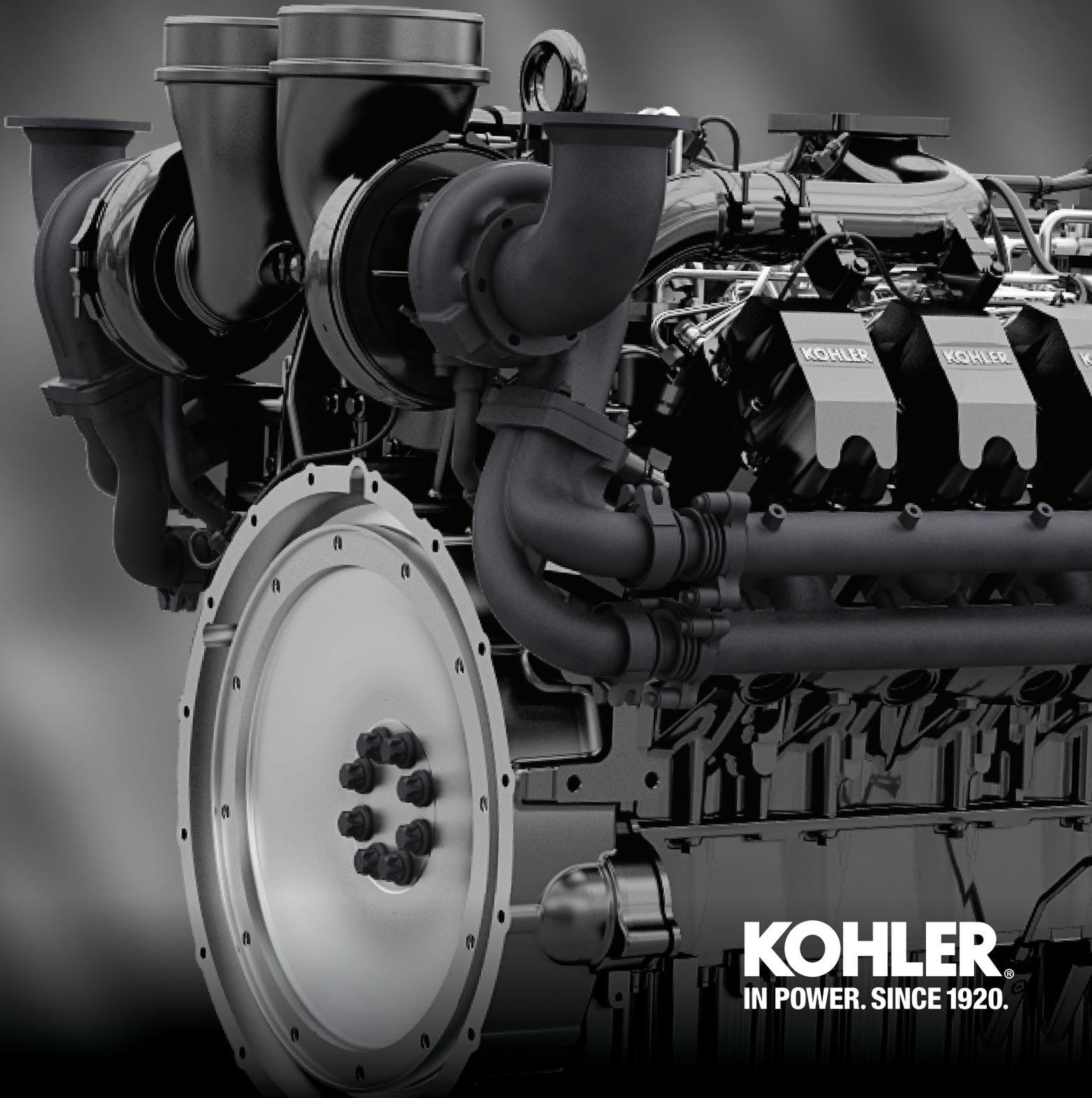
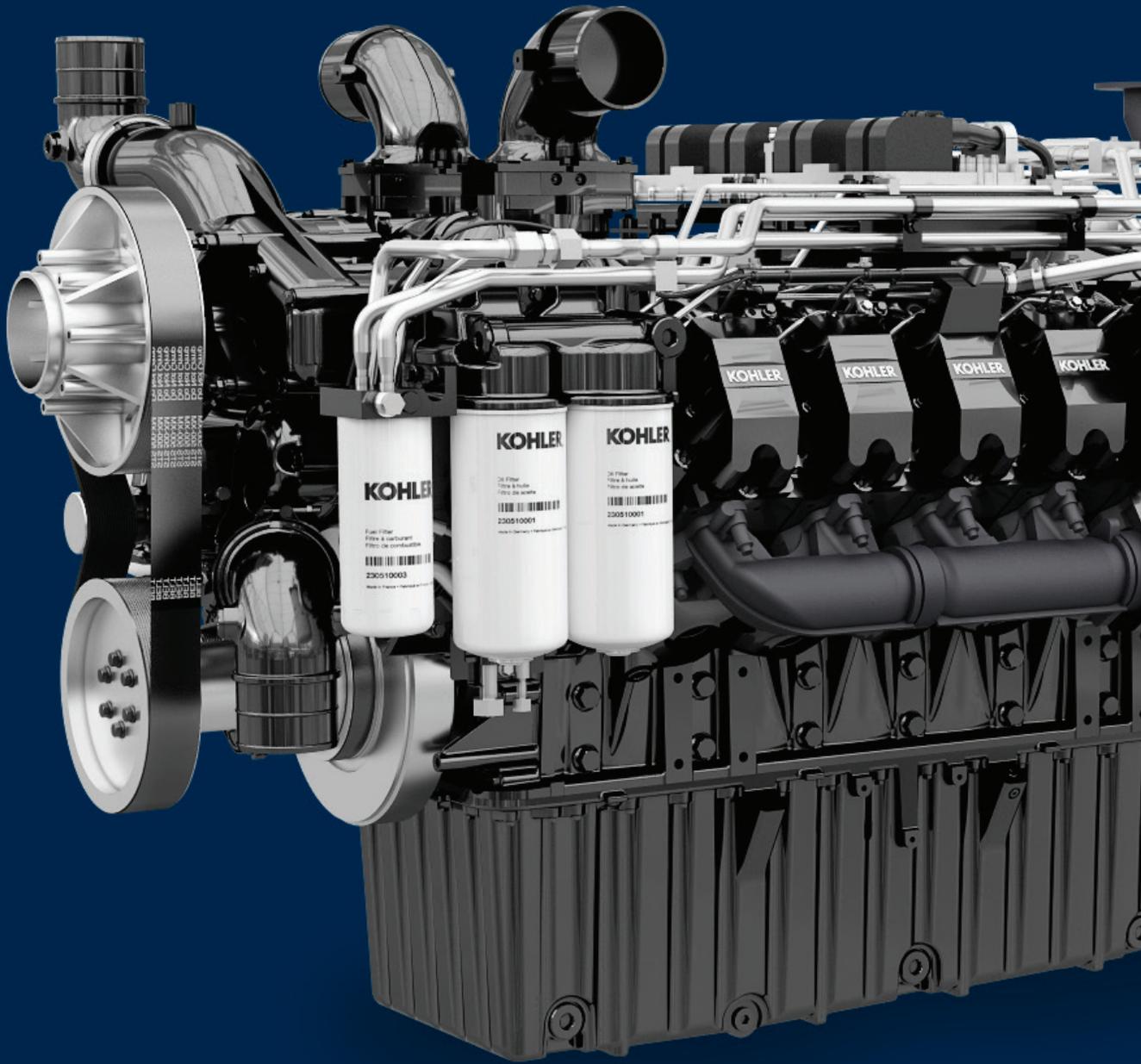


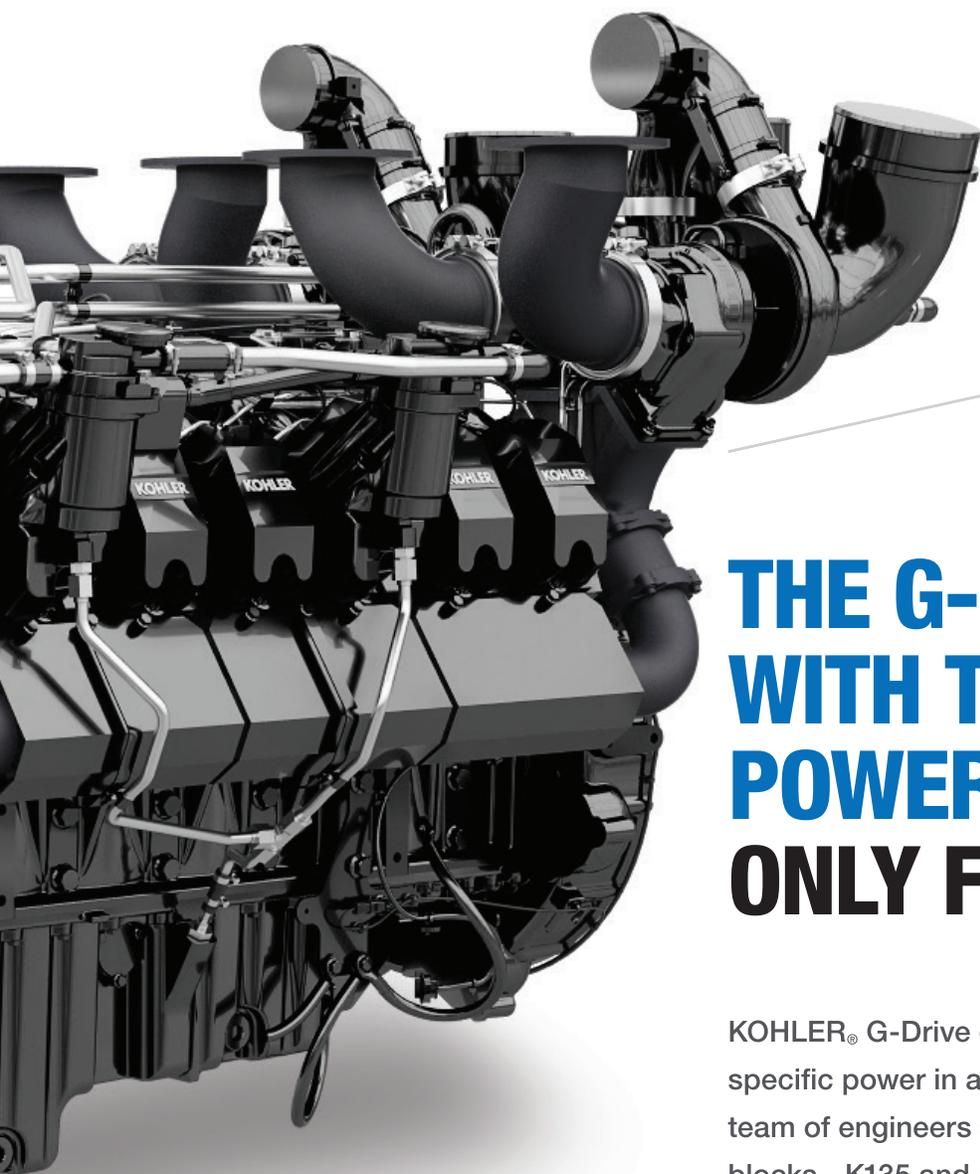
KD SERIES ENGINES[™]

for Industrial Power Systems



KOHLER[®]
IN POWER. SINCE 1920.





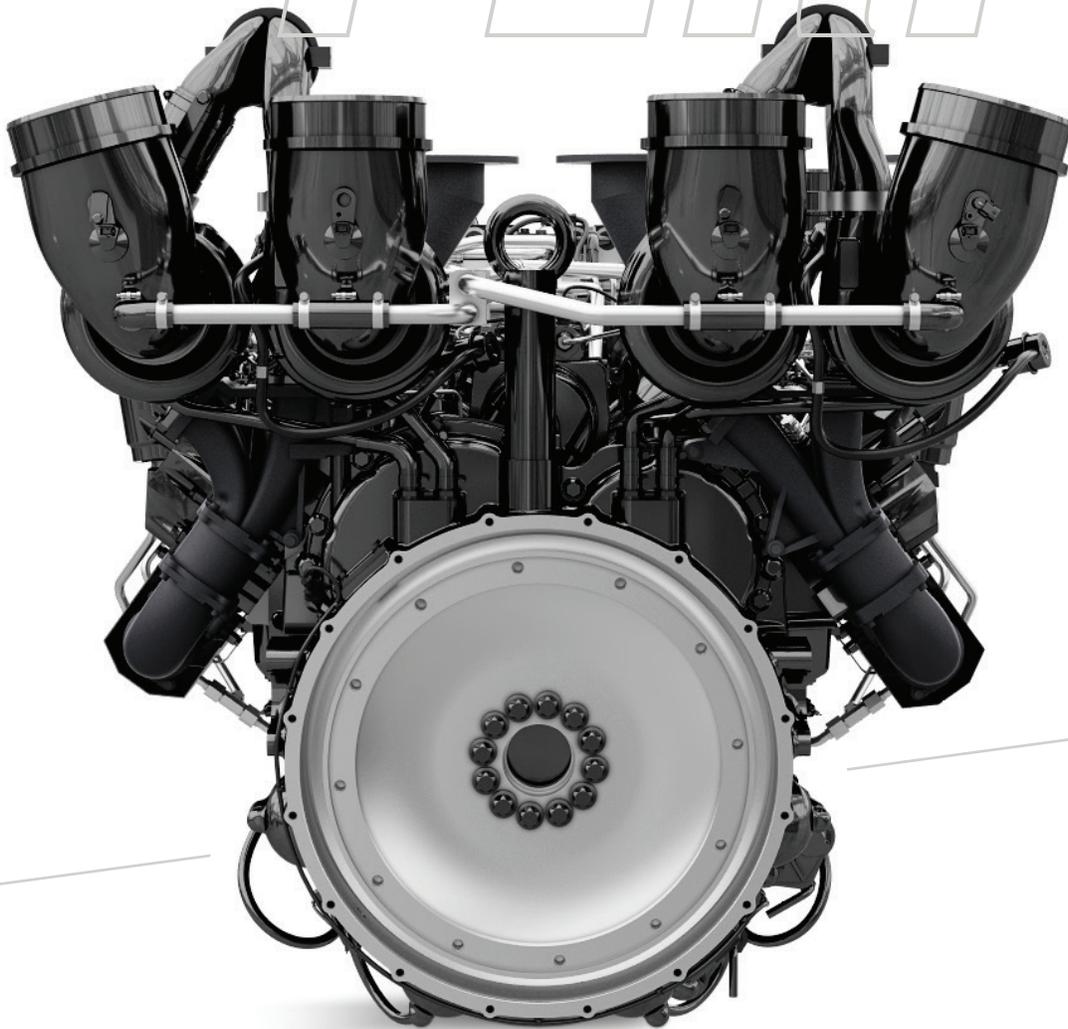
THE G-DRIVE ENGINE WITH THE HIGHEST POWER DENSITY.* ONLY FROM KOHLER.

KOHLER® G-Drive diesel engines offer outstanding specific power in a clean, modular design. Our global team of engineers developed two sophisticated engine blocks—K135 and K175—that deliver a large range of power from 537 to 4290 kWm.

Created specifically for generator set applications, these new engines combine greater power with superior efficiency. Reaching up to 43.5 kW/liter, KOHLER G-Drive engines pair a compact form factor with unrivaled kW displacement—delivering the highest power density on the market.*

**Higher power density at more nodes than any competitor between 800 and 3250 kW.*

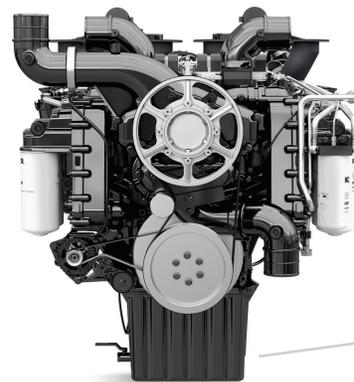
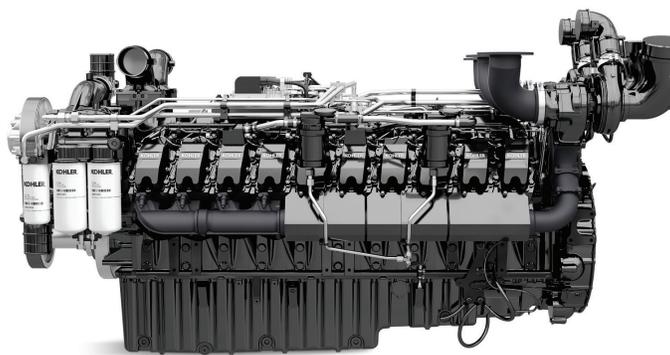
PERFOR



CONCENTRATED POWER

The KOHLER® G-Drive diesel engine range produces industry-leading kW displacement in a package that enables a smaller generator set footprint while delivering the best fuel consumption at more nodes than any competitor between 800 and 4000 kW. That means higher performance at reduced operating cost. The engine architecture, injection system and engine management of KOHLER G-Drive engines have been designed to achieve optimal generator set performance while meeting all worldwide emission requirements.

PERFORMANCE



ROBUST AND RELIABLE

With almost a century of engineering know-how behind it, our G-Drive engine has been purposefully designed for long-life performance inside your KOHLER® or Kohler-SDMO generator—power systems that are backed by a 3-year emergency standby power (ESP) warranty. We design, test and fit every component. Our computer-aided quality-management system oversees every step of development, from the first stage of production through the engine's entire lifecycle, to ensure the highest level of quality.

MODULAR DESIGN

All models within the KD Series™ are designed to share common components including engine control units, connecting rods and pistons, fuel system components, cylinder heads and more. This sophisticated, modular design means more efficient servicing of the engine, reduced spare parts inventory and more streamlined technician training.

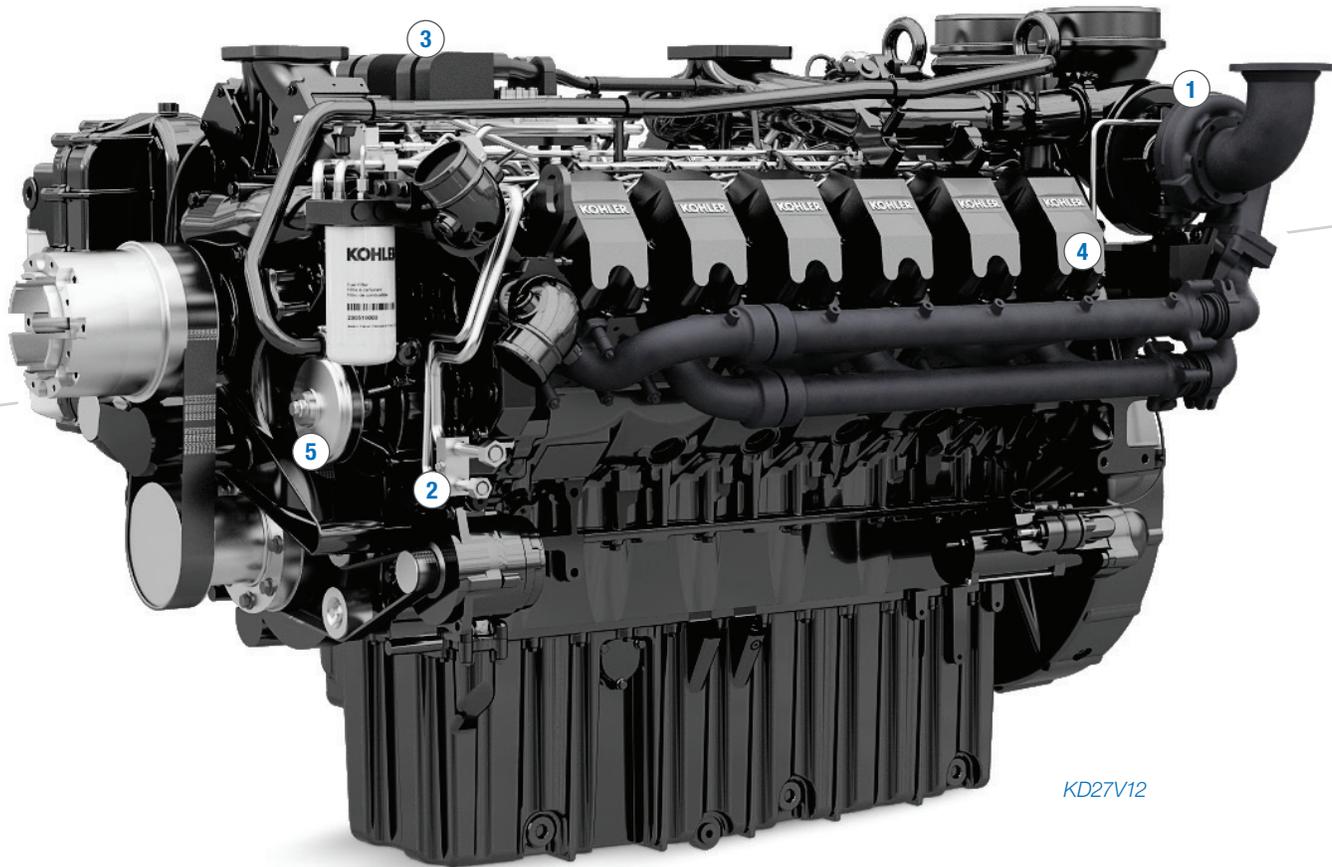
SMOOTH-RUNNING

Our G-Drive engine runs smoothly, quietly and with low vibration—even under extreme operating conditions. Vibration is minimized through low-noise combustion and optimized combustion pressure. The rigid design of the engine block, crankcase, oil sump, valve cover and subframe also helps reduce vibration.

Unlike engines with standard crankshaft support-bearing configurations, the KOHLER G-Drive offers an optimized bearing arrangement, creating a more stable engine with less vibration.

LOW OPERATING AND MAINTENANCE COSTS

Costs to operate and maintain a KOHLER G-Drive engine are reduced through low fuel consumption, increased power density, reduced acquisition costs and diagnostics that help prevent issues. The cylinder head design and crankcase ventilation mean extended service intervals and longer lifetime.



KD27V12

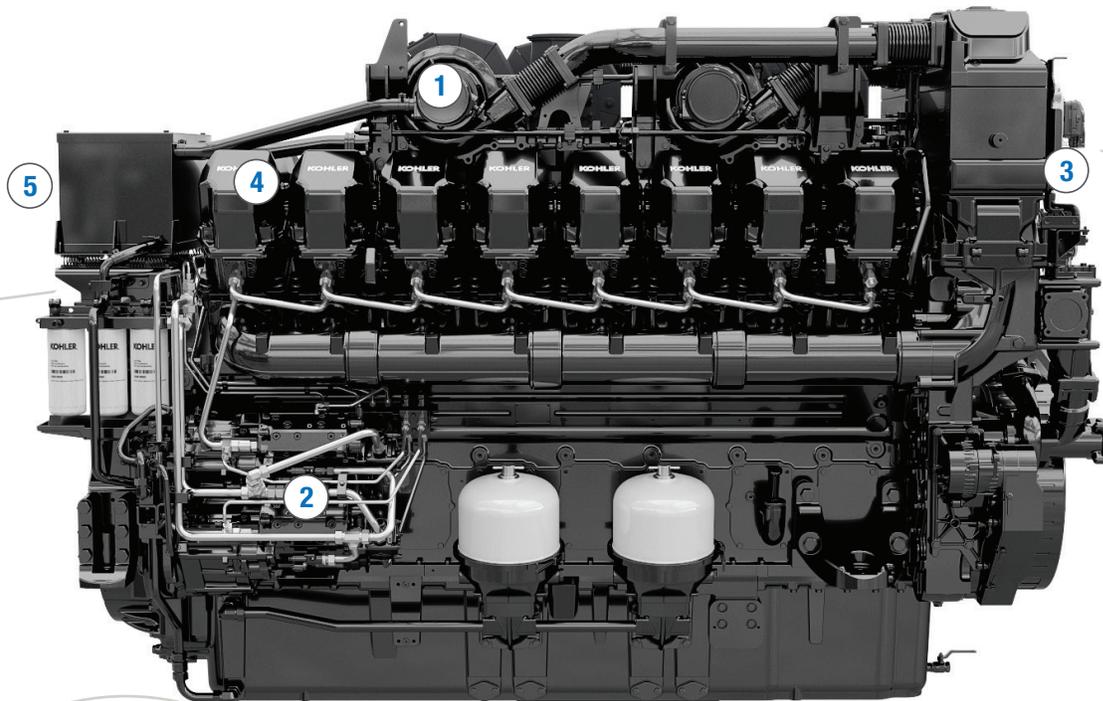
INNOVATION

1 MATCHED TURBOCHARGERS

Turbochargers have been designed for maximum power and optimal combustion using the right amount of intake air. They are specifically matched to each engine and engineered to provide the required amount of air at all times, which reduces fuel consumption and enables operation at high altitudes.

2 FUEL SYSTEM

The common rail fuel system generates up to 2200-bar injection pressures for maximum efficiency, optimizing the combustion pressure curve through multiple injections. An ideal injection point and extremely uniform injection quantity create exceptionally low noise and deliver very stable power. Engineers specifically designed the remarkable high lift fuel system to work optimally for KOHLER® G-Drive engines.



KD83V16



Designed and developed specifically for this engine series, each ECU works with the generator set controller—receiving important engine operating data and allowing the generator set controller to manage the entire system.

3 INTUITIVE ENGINE CONTROL UNIT (ECU)

The ECU includes a number of physical parameters for optimal control of the injection system and long-life service. It is designed to work seamlessly within the generator set and to communicate with KODIA, our intuitive diagnostic software, to allow monitoring of the engine performance.

4 INNOVATIVE CYLINDER HEAD DESIGN

Featuring a “crossflow” design and new valve orientation, our innovative cylinder head design includes more efficient fuel delivery, minimal low temperature fuel return, combustion and exhaust gas flow, materials chosen for better performance and a strengthened structure.

5 CRANKCASE VENTILATION

Our standard closed crankcase ventilation filters to 95% efficiency removing debris from entering into the atmosphere. This closed-loop regeneration system increases filtration efficiency and results in a more environmentally friendly engine.

BUILT TO PERFORM,

BU

RIGID ENGINE DESIGN

Optimized to reduce noise and oscillation levels, our diesel engines feature an extremely stiff engine block, crankcase, oil sump, valve cover and subframe design.

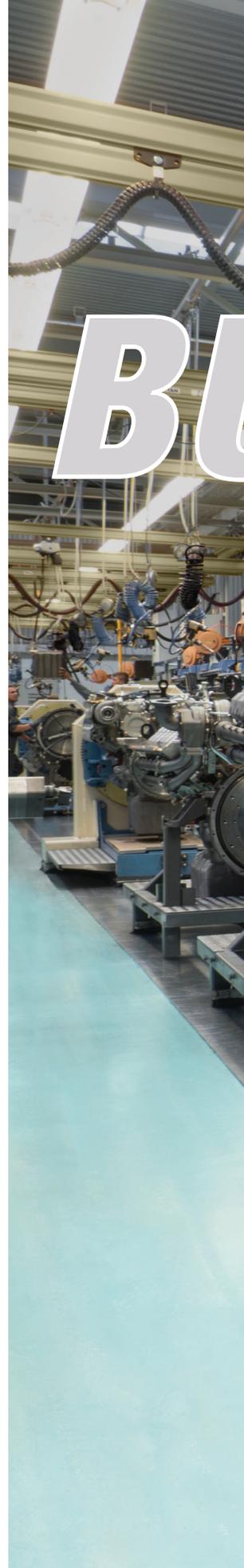
INTERNAL COMPONENT DESIGN

Featuring one-piece steel pistons, our engines allow high ignition pressures with a long service life and deliver maximum strength even under high thermal load. All components, optimized with the finite element analysis, demonstrate ideal load distribution and optimal material utilization.

HIGH-QUALITY, LONG-LASTING MATERIALS

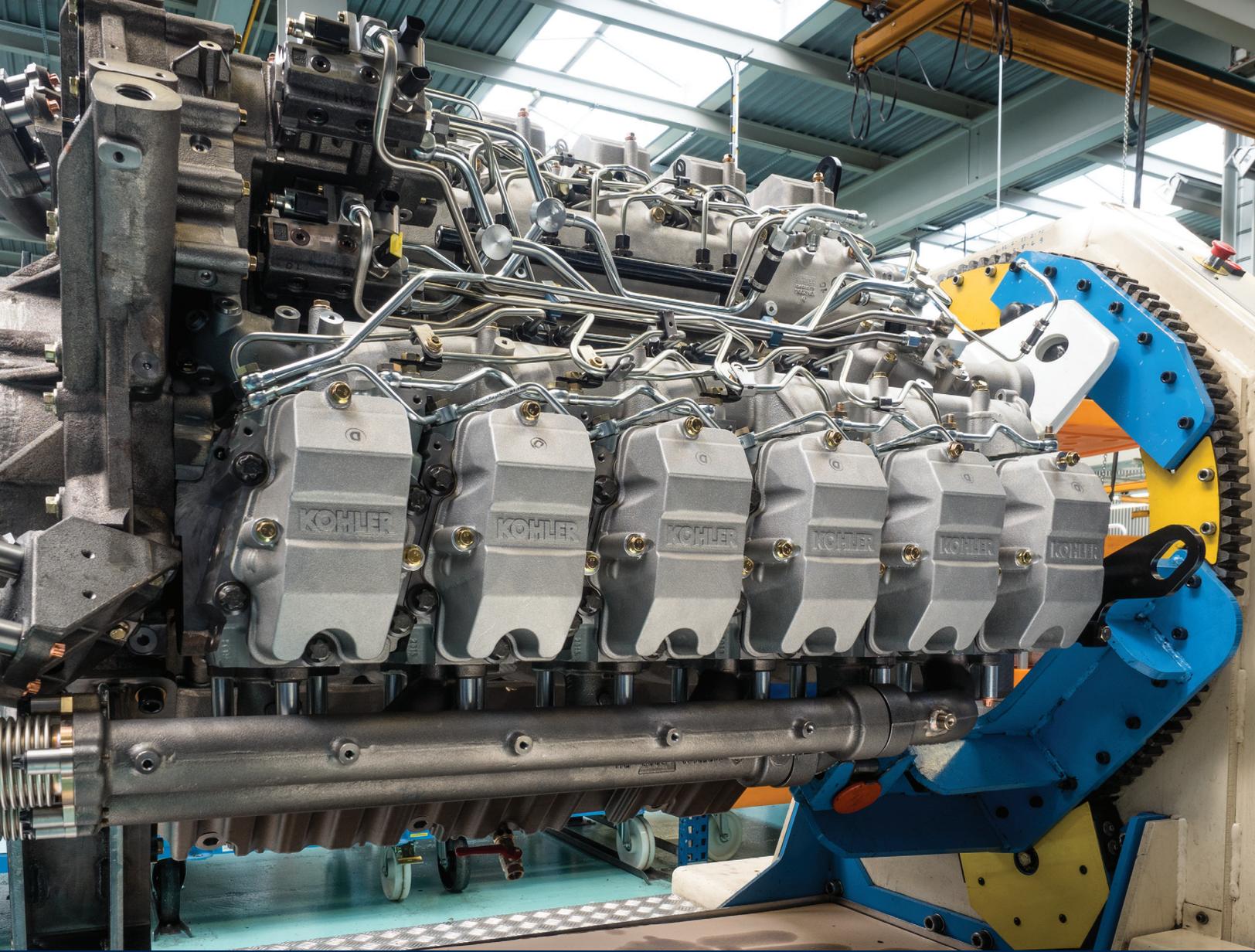
Along with a variety of safety factors, our engines are equipped with the highest-quality materials. For example, composite bearing shells ensure the longevity of crankshaft bearings under increasing loads.

Optimized gear pairing facilitates low-noise transmission.



BUILT TO LAST





STATE-OF-THE-ART MANUFACTURING AND DEVELOPMENT

KOHLER® G-Drive diesel engines are manufactured in French and Swiss factories with the highest-quality manufacturing systems. They have been specially developed over a Ten-Year period for use in generator set applications. These engines are ideal for all types of stringent applications such as data centers, hospitals, power plants and mining sites. They have proven their reliability, efficiency and outstanding performance during nearly 100,000 hours of tests, both in the laboratory and in the field.

HIGHEST STANDARDS OF QUALITY

To safeguard quality, the production plants use a contemporary computer-assisted quality (CAQ) management system that is implemented early in the production creation process and throughout the entire product lifecycle. Statistical assessments, failure mode and effects analysis (FMEA), continual improvement process (CIP), lean management and the 8-D method are implemented to ensure consistent manufacturing processes.

Every engine part—and every engine—is tested under rigorous operating conditions before leaving the factory. DIN EN ISO 9001/2008 standard requirements are followed in France and Switzerland engine manufacturing plants. Consistent quality assurance and process monitoring lead to our engines high level of reliability.

FINITE ELEMENT ANALYSIS

Using finite element analysis (FEA), our engines optimize the rigidity and weight distribution of connecting rods, crankshafts, engine blocks and other critical components to ensure engine stability.

MODERN MEASURING DEVICES

Machines that measure 3-D with microrange accuracy offer the best prerequisites for attaining the quality you expect. In addition to inspecting internally manufactured parts, these machines are also used to inspect any parts brought in from external suppliers.



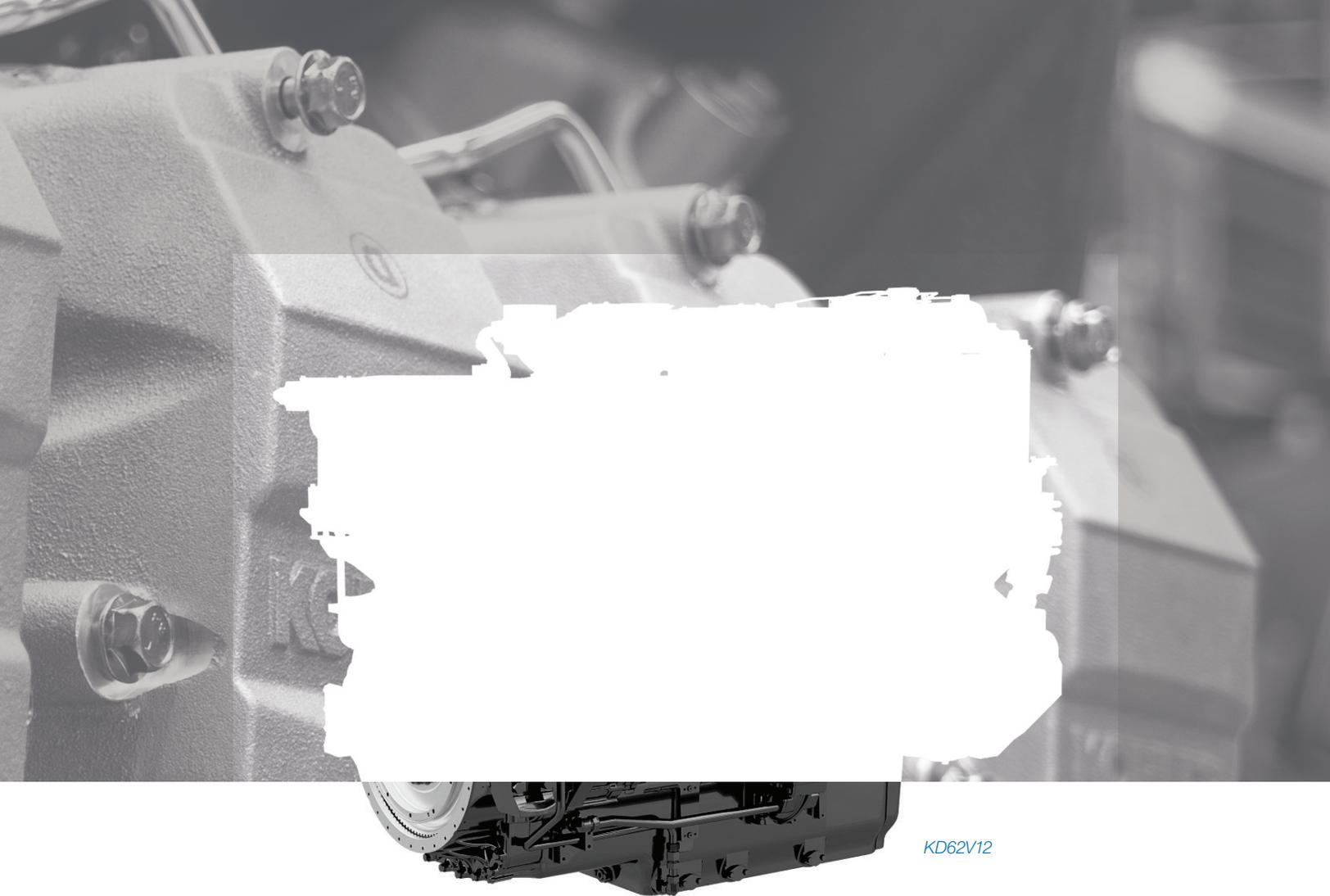
KD SERIESTM **RANGE SPECS**

KD27V12

KD36V16

KD45V20

GENERAL DATA				
Number of cylinders		12	16	20
Cylinder arrangement		90° V	90° V	108° V
Cycle		4-cycle	4-cycle	4-cycle
Bore	mm (in)	135 (5.3)	135 (5.3)	135 (5.3)
Stroke	mm (in)	157 (6.2)	157 (6.2)	157 (6.2)
Displacement	total L (cu in)	27.00 (1647.6)	36.00 (2196.9)	45.00 (2746.1)
Dimensions L x W x H	mm (in)	2022 x 1356 x 1343 (79.6 x 53.4 x 52.9)	2831 x 1358 x 1581 (111.5 x 53.5 x 62.3)	3087 x 1414 x 1547 (121.5 x 55.7 x 60.9)
GROSS POWER				
1500 rpm (50 Hz)	kWm/BHP	979/1313	1333/1788	1547/2075
1800 rpm (60 Hz)	kWm/BHP	1114/1494	1450/1944	1910/2561



KD62V12

KD83V16

KD103V20

GENERAL DATA				
Number of cylinders		12	16	20
Cylinder arrangement		60° V	60° V	60° V
Cycle		4-cycle	4-cycle	4-cycle
Bore	mm (in)	175 (6.9)	175 (6.9)	175 (6.9)
Stroke	mm (in)	215 (8.5)	215 (8.5)	215 (8.5)
Displacement	total L (cu in)	62.04 (3785.9)	82.72 (5047.9)	103.40 (6309.9)
Dimensions L x W x H	mm (in)	2661 x 1753 x 2126 (104.8 x 69.0 x 83.7)	3240 x 1777 x 2125 (127.6 x 69.9 x 83.7)	3624 x 1777 x 2125 (142.7 x 70.0 x 83.7)
GROSS POWER				
1500 rpm (50 Hz)	kWm/BHP	2406/3227	3007/4032	3800/5096
1800 rpm (60 Hz)	kWm/BHP	2700/3619	3490/4680	4290/5699



KOHLER GLOBAL SERVICE

Behind every KOHLER® Diesel G-Drive engine, there's a world of support. Numerous distributors, sales and service locations, and parts distribution centers make up our network, which extends across the globe. Plus, it's all backed by instant online access to everything from parts information to product warranties.

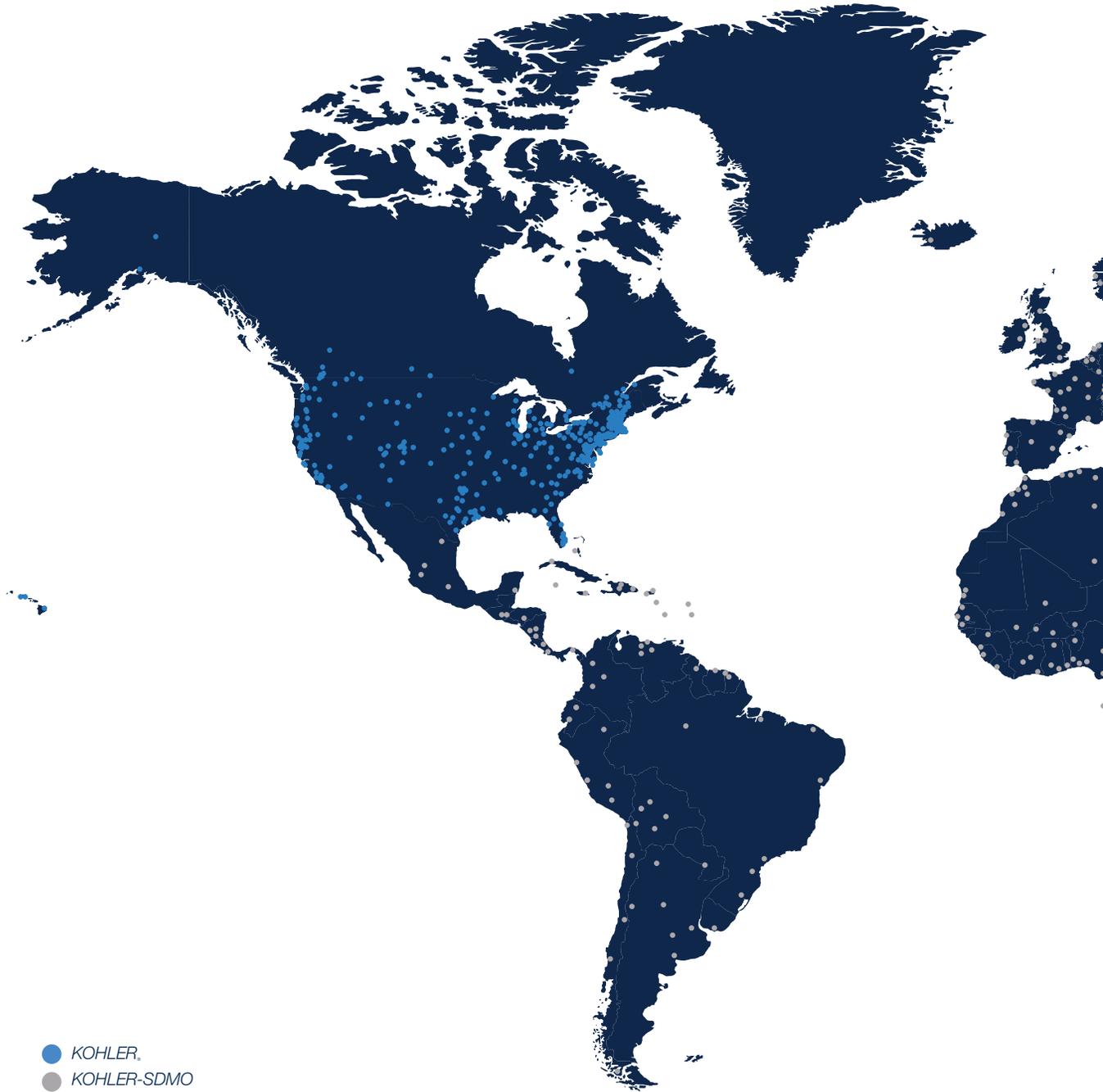
DAY-TO-DAY EXPERT ASSISTANCE

Kohler provides comprehensive support to engine technicians worldwide by offering:

- Commissioning
- Scheduled and unscheduled maintenance
- Repairs
- Technical documentation
- Product training

OUR SUPPORT CAPABILITIES

- Factory-trained technicians equipped with advanced diagnostics and repair tools
- Extended large-engine certification program for field technicians
- 24/365 KOHLER service



- KOHLER
- KOHLER-SDMO

SERVICE AND SUPPORT.

The help you need. Anytime, anywhere.



You're never too far from Kohler. Across the world, more than 800 locations are ready to provide sales, installation and after-market support services. And each one offers expertise in power specifications, equipment and integration.

There isn't a question they can't answer. We should know, we trained them ourselves. Plus, if you ever need assistance, we'll take care of you 24/7. Kohler Power professionals are available to offer troubleshooting, advice, service and support.



THE GENERATOR ENGINE BUILT BY THE GENERATOR EXPERTS.

A global force in power solutions since 1920, Kohler is committed to reliable, intelligent products, purposeful engineering and responsive after-sale support.

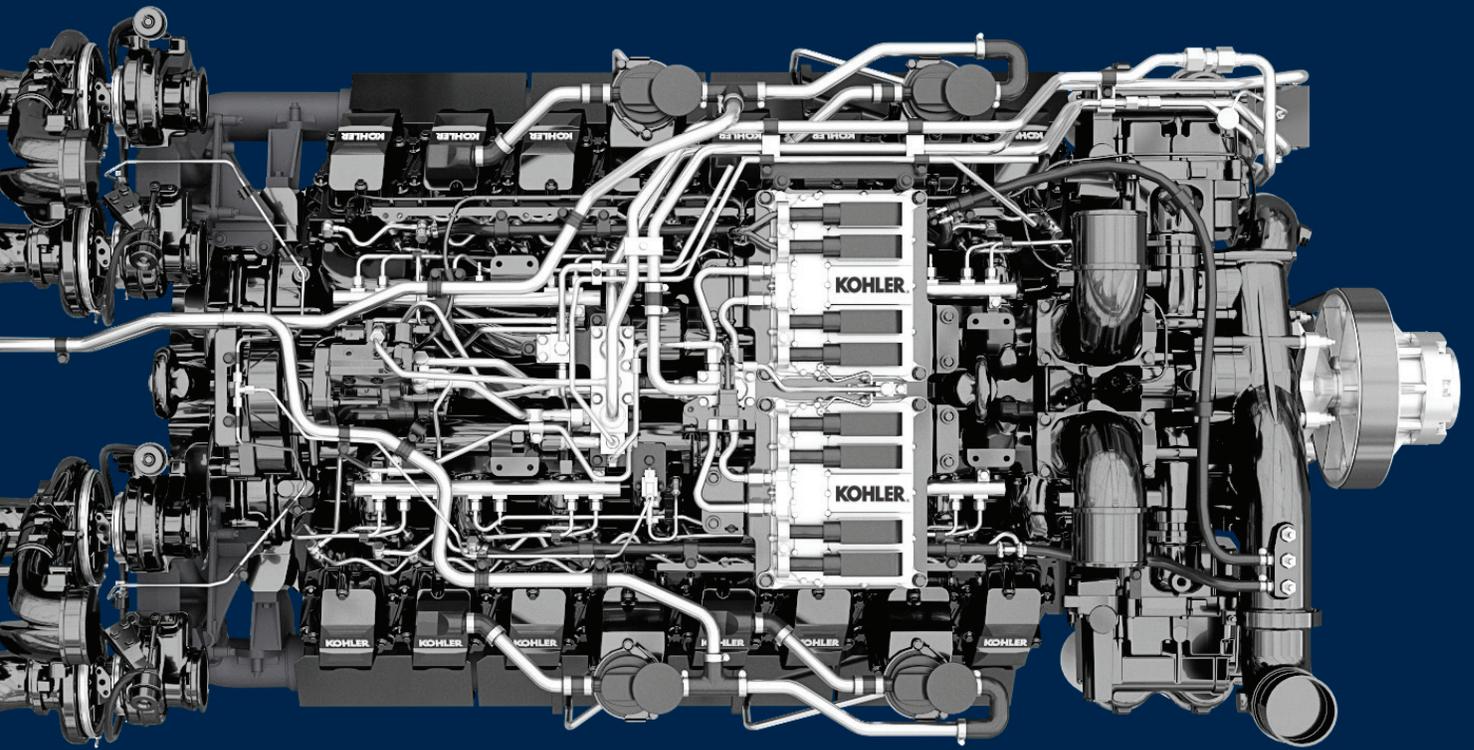
In 2005 we amplified our global reach—acquiring SDMO Industries, a worldwide leader known for its premium ranges of generator sets. Together, we’ve built on the legacy of two leading brands to create one of the largest global manufacturers of generators in the world—and continued an unwavering focus on reliable power systems and innovation.

Our R&D, manufacturing, sales, service and distribution facilities

span the globe from Kohler, Wisconsin, to Brest, France. And while we’ve maintained two world-renowned brand names, today Kohler and Kohler-SDMO operate as an integrated global organization that’s leading the way in design and manufacturing.

We deliver integrated industrial power systems for emergency, prime and continuous applications worldwide—from data centers and hospitals to water treatment facilities and telecommunication sites. With a deep understanding of your industry, we excel in designing customized power systems that simplify your most complex challenges.





TRUSTED EVERYWHERE

AMERICAS

North America
+1 800 544 2444

South America
+1 (305) 863 0012

EUROPE

+33 (0)2 98 41 41 41

MIDDLE EAST

+971 4 458 70 20

AFRICA

+33 (0)2 98 41 41 41

ASIA-PACIFIC

Southeast Asia
+65 6264 6422

China
+86 400 1808 900

India
+91 800 266 0600