

KOHLER Flex

An integrated suite of engine systems

INSTALLATION FACILE

FIT AND FORGET

EFICACIA

LEISTUNG

无油稀释

TRANSPARENT FÜR DEN ENDANWENDER

COMPACIDAD

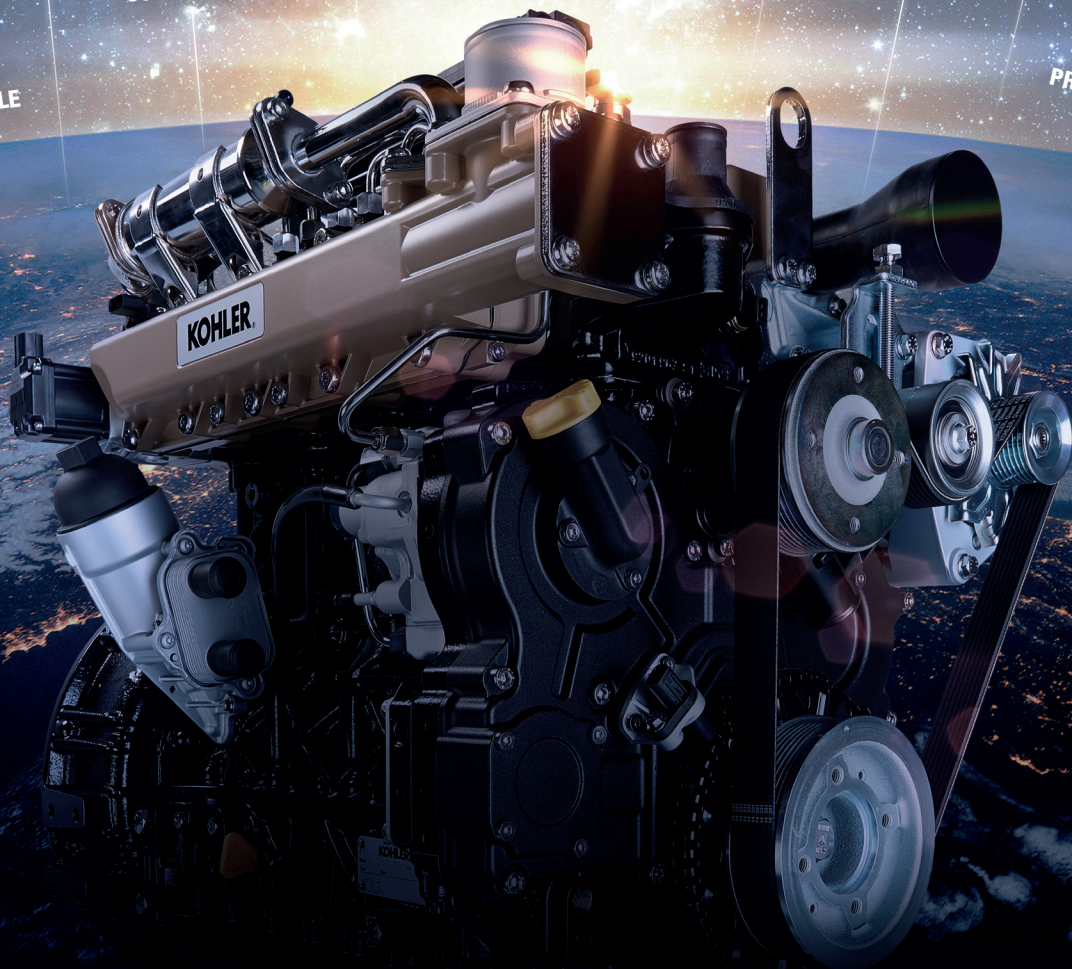
DOWNSIZING

INTÉGRATION

PRESENZA GLOBALE

PRODUTTIVITÀ

澎湃动力



KOHLER[®]
IN POWER. SINCE 1920.

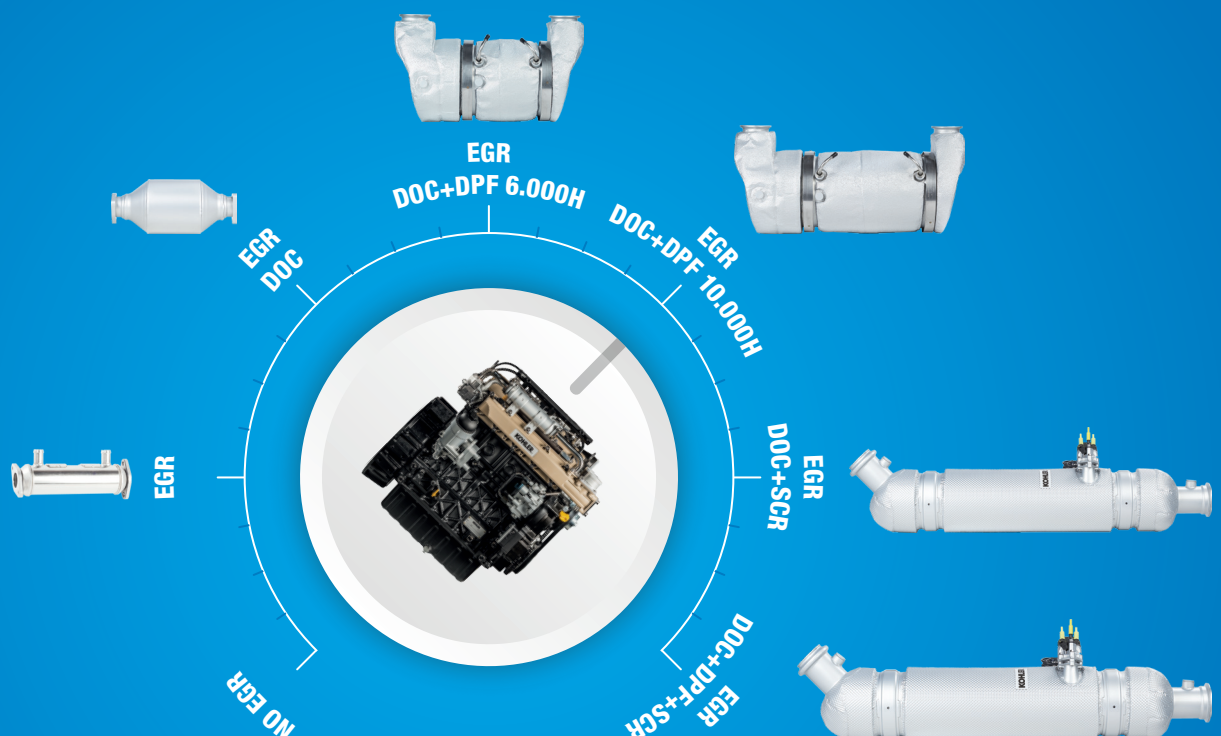
KOHLER Flex

AN INTEGRATED SUITE OF ENGINE SYSTEMS

KOHLER Flex is the range of solutions for emission control that we have designed to enable each configuration of the KDI platform to comply with all emissions standards and regulations worldwide. At the heart of KOHLER Flex is the clean combustion of KDI engines that enables the adoption of a compact, state-of-the-art DPF to meet the Stage V emission standard.

KOHLER Flex combines in-cylinder combustion of KDI engines, made possible by high-pressure common rail (2000bar), 4 valves head, turbocharger and cooled-EGR, and the ultra-compact aftertreatment devices (DOC, DPF and SCR) to comply with all emission requirements.

SMART AND COMPACT EMISSIONS MANAGEMENT SYSTEMS



Exhaust Gas Recirculation (EGR)

The EGR system recirculates the exhaust gas back into the air intake, reducing nitrogen oxide emissions.

Diesel Oxidation Catalyst (DOC)

The DOC reacts with exhaust gases to reduce carbon monoxide, hydrocarbons, and some particulate matter.

Diesel Particulate Filter (DPF)

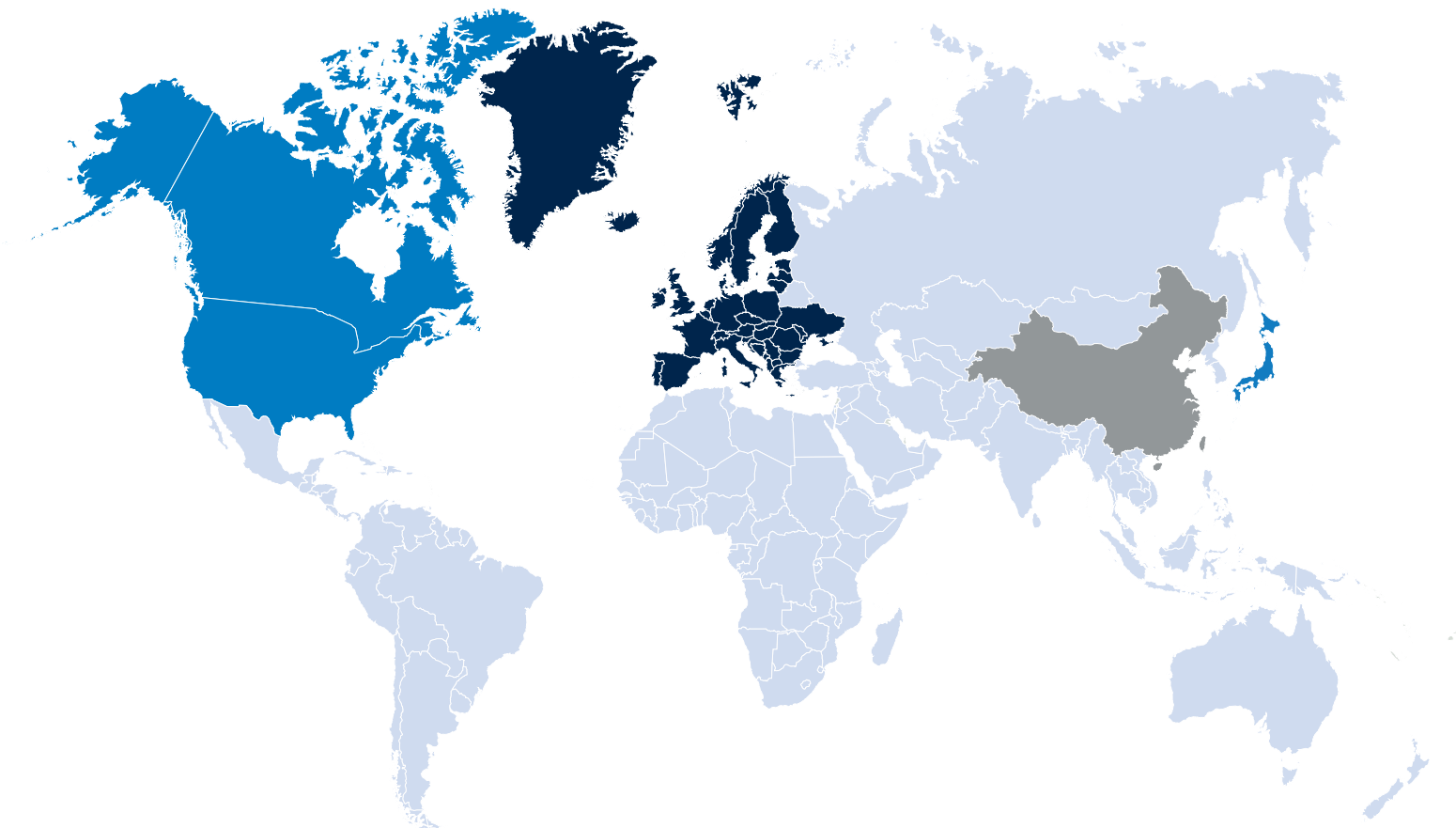
The DPF is a soot trap, which physically captures diesel particulate matter and prevents their release into the atmosphere.

Selective Catalyst Reduction (SCR)

The SCR System sets off a chemical reaction that converts nitrous oxide into nitrogen, water and tiny amounts of carbon dioxide.

BE UNSTOPPABLE

We created a new platform of diesel engines, designed to meet the requirements of a global market that demands more application flexibility and compliance with the various emissions limits. We also built these engines with maximum power and performance to boost your productivity.



EU EMISSIONS



US EMISSIONS



CHINA EMISSIONS



LESS REGULATED COUNTRIES



To prepare your equipment for Stage V, we added other models to our lineup. KDI engines have always been known for clean combustion, but now with the introduction of our DPF, we're offering one of the most advanced compact aftertreatment systems in the world. Through state-of-the-art simulation tools and testing, we created a smart regeneration strategy that automatically cleans up in every application, during every duty cycle.

KDI LINEUP EXTENSION: ONE ENGINE PLATFORM FOR THE ENTIRE WORLD

Model (variable speed)	Power (kW@rpm)	Torque (Nm@rpm)	KOHLER FLEX Emission Management System				EU Emissions*	US Emissions	China Emissions	Less Regulated Countries
KDI-TCF 1903	42.0@2600	225@1500	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	-	-
KDI-TCF 2504	55.4@2600	300@1500	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	-	-
KDI-TCL 3404	55.4@2200	375@1400	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	-	-
KDI-TCV 3404	100.0@2200	500@1400	EGR	DOC	-	SCR	EU Stage IV	US Tier 4 F	-	-
KDI-TCR 1903	42.0@2600	225@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	China 4 **	-
KDI-TCR 2504	55.4@2600	315@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	China 4 **	-
KDI-TCS 1903	55.4@2600	300@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI-TCN 3404	55.4@2200	465@1200	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI-TCP 3404	105.0@2200	640@1400	-	DOC	DPF	SCR	EU Stage V	US Tier 4 F	-	-
KDI-TC 1903	37.0@2600	170@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI-TC 2504	50.0@2600	236@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI-TC1 3404	55.0@2200	330@1400	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI-TCQ 1903	42.0@2600	225@1500	EGR	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI-TCQ 2504	55.4@2600	300@1500	EGR	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI-TCK 2504	55.4@2600	300@1500	-	-	-	-	EU Stage IIIA	-	-	US-Tier 3 or EU IIIA eq.
KDI-TCW 3404	100.0@2200	500@1400	EGR	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI-TCX 3404	100.0@2200	500@1400	EGR	DOC	DPF	-	-	-	China 4 **	-
KDI-M 1903	31.0@2600	133@1500	-	-	-	-	EU Stage IIIA	-	-	US-Tier 3 or EU IIIA eq.
KDI-M 2504	36.4@2600	170@1500	-	-	-	-	EU Stage IIIA	-	-	US-Tier 3 or EU IIIA eq.

* Effective date:

2019 (Engines <56kW)

2020 (Engines >56kW)

** indicative only.

China 4 emissions limits under review

Each combination of KOHLER Flex has been designed in line with the all-in-one philosophy, with the objective of minimizing change for engine installation into existing packages. These efficient and reliable systems can be deployed in many combinations to achieve effective emissions solutions for markets worldwide.



SPEND MORE TIME IN MOTION

A complete and versatile engine platform, KOHLER Flex technology maximizes efficiency, delivering exceptional power and torque in a compact design. With competitive pricing, easy installation, low operating costs and easy maintenance, it's an excellent choice in any location.

FLEXIBILITY OF APPLICATIONS

Our Stage V development has followed our simple, straightforward philosophy: deliver more value to our customers and end users. We have developed a solution that is functional and compact so that OEMs are not required to re-engineer their machines. It offers end users a DPF technology that eliminates machine downtime thanks to our smart regeneration strategy, clean combustion, reduced fuel consumption and oil cleanliness.

