



SPEND MORE TIME IN MOTION

KOHLER Flex technology offers manufacturers and end users a complete and versatile engine platform, featuring maximum efficiency, compactness, power and torque delivery; simplified installation; lower operating costs; and ease of maintenance. In addition, our cost competitiveness and superior performance are key advantages that are appreciated in every geographical area.

THE ULTIMATE SOLUTION TO GLOBAL EMISSIONS

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.

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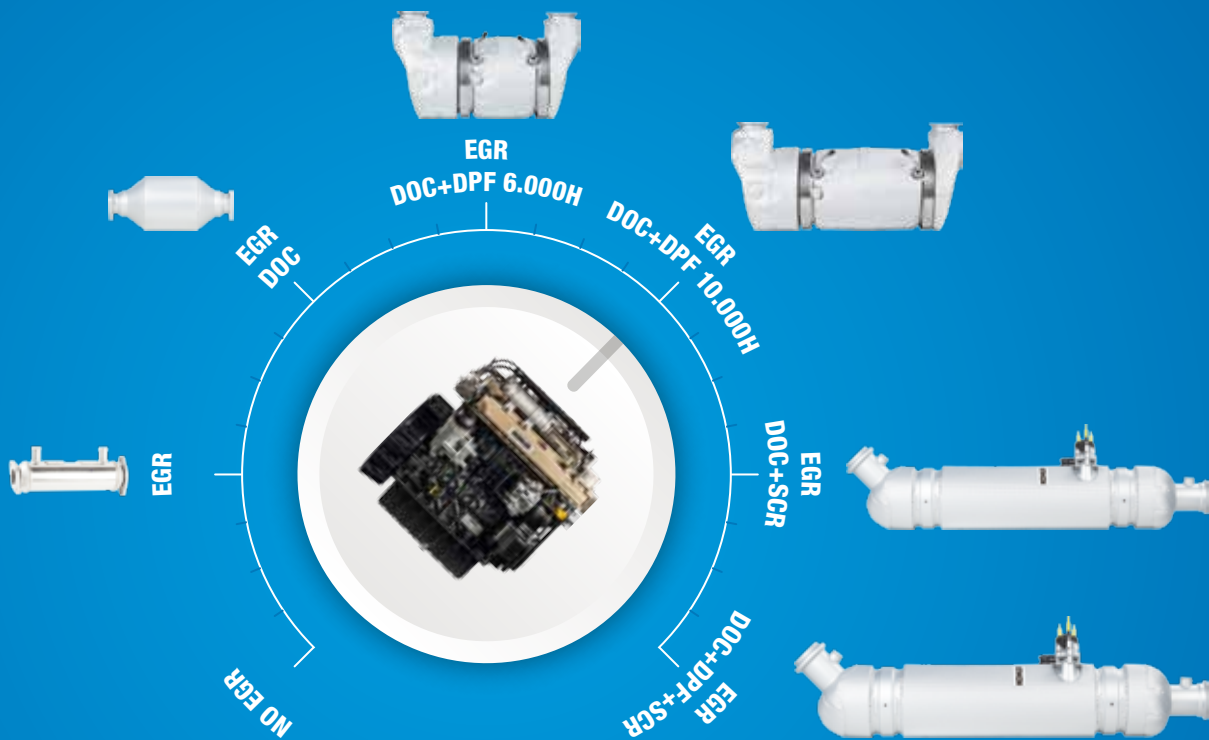
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KOHLER Flex

KOHLER'S INTEGRATED SUITE OF ENGINE SYSTEMS

KOHLER Flex is the range of solutions for emission control that Kohler has designed to enable each configuration of the KDI platform to comply with all emissions standards and regulations, worldwide. At the heart of KOHLER Flex there 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 the clean 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)

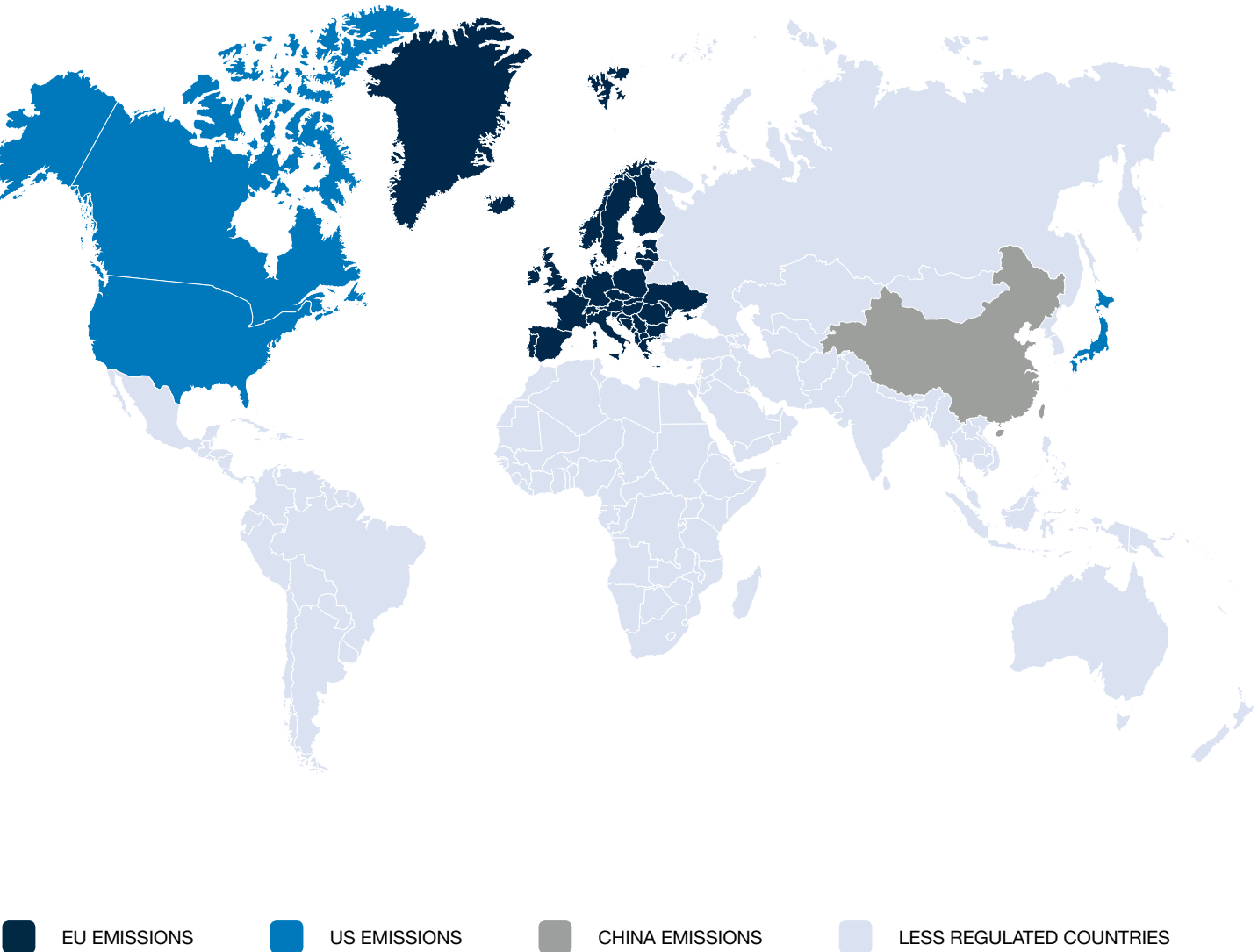
The DPF is a soot trap, which physically captures diesel particulate matter and prevents their release into the atmosphere.

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.



To prepare your equipment for Stage V, we added other models to our lineup. KDI engines have always been known for extremely 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. A DPF 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 1903 TCR	42.0@2600	225@1500	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	China 4**	-
KDI 2504 TCR	55.4@2600	300@1500	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	China 4**	-
KDI 3404 TCR	55.4@2200	375@1400	EGR	DOC	-	-	EU Stage IIIB	US Tier 4 F	China 4**	-
KDI 3404 TCS	100.0@2200	500@1400	EGR	DOC	-	SCR	EU Stage IV	US Tier 4 F	-	-
KDI 1903 TCR	42.0@2600	225@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 2504 TCR	55.4@2600	300@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 1903 TCP	55.4@2600	300@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 3404 TCN	55.4@2200	430@1200	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 3404 TCP	105.0@2200	640@1400	-	DOC	DPF	SCR	EU Stage V	US Tier 4 F	-	-
KDI 1903 TC	37.0@2600	170@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 2504 TC	50.0@2600	250@1500	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 3404 TC	55.0@2200	330@1400	EGR	DOC	DPF	-	EU Stage V	US Tier 4 F	-	-
KDI 1903 TCR	42.0@2600	225@1500	-	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI 2504 TCR	55.4@2600	300@1500	-	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI 3404 TCR	105.0@2200	500@1400	EGR	-	-	-	-	-	China 3	US-Tier 3 or EU IIIA eq.
KDI 3404 TCP	105.0@2200	500@1400	EGR	DOC	-	-	-	-	China 4**	-
KDI 1903 M	31.0@2600	133@1500	-	-	-	-	-	-	-	US-Tier 3 or EU IIIA eq.
KDI 2504 M	36.4@2600	170@1500	-	-	-	-	-	-	-	US-Tier 3 or EU IIIA eq.

Engine name description:

KDI	Kohler Direct Injection	M	Mechanical Injection
T	Turbocharged	P	High Power
C	Common Rail Injection	N	High Torque
R	Charge Air Cooling	S	Selective Catalyst Reduction

* introduction date:
2019 (Engines <56kW)
2020 (Engines >56kW)

** indicative only.
China 4 emissions limits under definition

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 the different markets.