

# DIESEL ENGINES GUIDE



**KOHLER**<sup>®</sup>  
IN POWER. SINCE 1920.



# TABLE OF CONTENTS

Power-Variable Speed Ratings .....	4
KOHLER® Flex .....	6
Emissions Regulations .....	7
Engines Compliance .....	8

## Off-Road Engines

KDI3404TCR-SCR .....	10
KDI3404TCR .....	11
KDI2504TCR .....	12
KDI2504M .....	13
KDI1903TCR .....	14
KDI1903M .....	15
KDW2204/T .....	16
KDW2204 .....	17
KDW1603 .....	18
KDW1404 .....	19
KDW1003 .....	20
KDW702 .....	21
KDW502 .....	22
LDW492 .....	23
KD626/3 .....	24
KD625/2 .....	25
KD477/2 .....	26
KD425/2 .....	27
KD330/2 .....	28
3LD510 .....	29
KD15500 .....	30
KD15440 .....	31
KD15440S .....	32
KD15350 .....	33
KD15350S .....	34
KD15225 .....	35
KD15225S .....	36

# POWER-VARIABLE SPEED RATINGS

Engines		Power (kW) ISO 3046 IFN and ISO 14396										
		2.5	3.3	4.6	5.1	6.8	7.3	7.4	8.2	8.5	8.6	11.2
KDI Range	KDI3404TCR-SCR											
	KDI3404TCR											
	KDI2504TCR											
	KDI2504M											
	KDI1903TCR											
	KDI1903M											
CHD Range	KDW2204/T											
	KDW2204											
	KDW1603											
FOCS Range	KDW1404											
	KDW1003											
	KDW702											
	KDW502*										•	
	LDW492*									•		
Air-Cooled Range	KD626/3											
	KD625/2											
	KD477/2											
	KD425/2											
	KD330/2											•
	3LD 510						•					
	KD15-500								•			
	KD15-440							•				
	KD15-440S					•						
	KD15-350				•							
	KD15-350S			•								
	KD15-225		•									
	KD15-225S	•										

\*80/1269/CEE - ISO 1585



# KOHLER Flex

## An 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 combustion of KDI engines that enables the adoption of a compact, state-of-the-art DPF to meet the Stage V emission standard in Europe. KOHLER Flex combines the in-cylinder combustion of KDI engines, made possible by state-of-the-art high-pressure common rail (2000 bar), four valves head, turbocharger and cooled-EGR, and the most compact aftertreatment devices (DOC, DPF and SCR) to comply with all emission requirements. 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.

		KOHLER Flex LEVEL								
		Europe				North America & Canada			China	Less-Regulated Countries
Devices		EA	EB	E4	EV	U3	U4	UF	C3	
		Stage III/A	Stage III/B	Stage IV	Stage V*	Tier 3	Tier 4 Interim	Tier 4 Final	China 3	
<56 kW	Mechanical Injection	•								•
	Common Rail		•		•	•		•	•	(•‡)
	C-EGR		•		•			•		
	DOC		•		•			•		
	DPF				•			(• <sup>†</sup> )		
>56 kW	Common Rail			•	•	•		•	•	(•‡)
	C-EGR			•		•		•	•	
	DOC			•	•			•		
	DPF				•			(• <sup>†</sup> )		
	SCR			•	•			•		

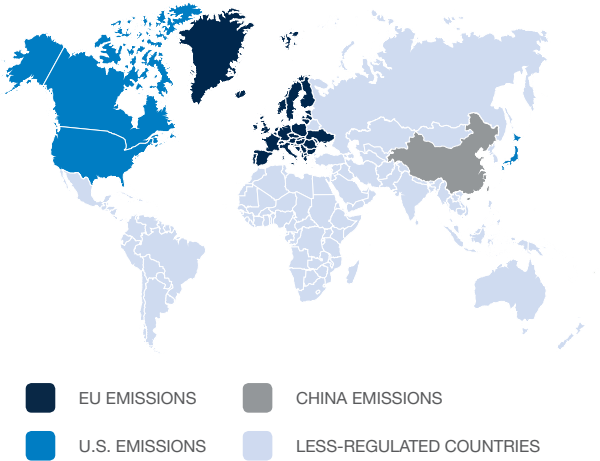
\*Introduction date: January 2019 (19-56 kW), January 2020 (56-130 kW)

†On select models

‡Limited to sulfur content in the diesel

# EMISSIONS REGULATIONS

The next stage of EU emission standards comes into force in 2019 (< 56 kW and ≥ 130 kW) and 2020 (56-130 kW) for nonroad machinery equipped with diesel engines. The standards will continue the path toward reduction of NO<sub>x</sub> and particulate emissions. Machines for construction, agricultural, materials handling, garden machinery and generator sets will be affected by the new standards. Stage V will introduce a limit on the Particulate Number (PN). This will drive the adoption of Diesel Particulate Filter (DPF) for engines in this range and require the development of a regeneration strategy.



## Global Emissions Regulations

- EU countries will enter Stage V in 2019 (19 kW - 56 kW) and 2020 (>56 kW)
- The U.S. is currently regulated by EPA Tier 4 final. Canada follows the same standards.
- Japan and Switzerland follow norms that are similar to U.S. and Europe, respectively.

# ENGINES COMPLIANCE

		Europe				
		Stage III/A	Stage III/B	Stage IV	Stage V*	
Air-Cooled Range	KD15-225S					
	KD15-225					
	KD15-350S					
	KD15-350				•	
	KD15-440S					
	KD15-440				•	
	KD15-500					
	3-LD510					
	KD330/2					
	KD425/2				•	
	KD477/2					
	KD625/2					
	KD626/3					
	FOCS Range	LDW492			•	
KDW502					•	
KDW702					•	
KDW1003					•	
KDW1404		•			•	
CHD Range	KDW1603	•			•	
	KDW2204	•				
	KDW2204/T	•				
KDI Range	KDI1903M	•				
	KDI1903TCR		•		•	
	KDI2504M	•				
	KDI2504TCR		•		•	
	KDI3404TCR		•		•	
	KDI3404TCR-SCR			•	•	

\*Introduction date: January 2019 (19-56 kW), January 2020 (56-130 kW)

†Indicative only. China 4 emissions limits under definition



	North America & Canada			China		Less-Regulated Countries
	Tier 3	Tier 4 Interim	Tier 4 Final	China 3	China 4f	
						•
						•
						•
			•			•
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						•
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			•	•	•	•



# KDI

## 3404TCR-SCR

### Customer Benefits

- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

### Main Specs

Number of cylinders	4
Bore and stroke (mm)	96 x 116
Displacement (cm <sup>3</sup> )	3359
Aspiration	Turbocharged
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	15.6
Length (mm)	718
Width (mm)	580
Height (mm)	816
Dry weight (kg)	394
Max. power kW (hp) @ rpm	100.0 kW (134.0) @ 2200
Maximum torque (Nm @ rpm)	500.0 @ 1400
Emissions compliance	EU Stage IV, EU Stage V*, U.S. Tier 4 Final, China 3, China 4†

\*Introduction date: 2020

†Indicative only. China 4 emissions limits under definition

### Main Applications

Fruit Yard/Vineyard Tractor	Line Stripper	Welder
Fruit Picking/Harvesting	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Telescopic Handler	Aerial Platform
Water Pump (Irrigation)	Skid Steer Loader	Stringing Equipment
Wood Chipper	Backhoe Loader	Pressure Washer
Concrete Mixer	Wheeled Loader	Firefighting Pump
Concrete Sprayer	Self-Priming Water Pump	Forklift
Excavator	Air Compressor	
Compaction Roller	Generator Set	

# KDI

## 3404TCR



### Customer Benefits

- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

### Main Specs

Number of cylinders	4
Bore and stroke (mm)	96 x 116
Displacement (cm <sup>3</sup> )	3359
Aspiration	Turbocharged
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	15.6
Length (mm)	718
Width (mm)	580
Height (mm)	816
Dry weight (kg)	394
Max. power kW (hp) @ rpm	55.4 (74.0) @ 2200
Maximum torque (Nm @ rpm)	380.0 @ 1400
Emissions compliance	EU Stage III/B, EU Stage V*, U.S. Tier 4 Final, China 4 <sup>†</sup>

\*Introduction date: 2019

<sup>†</sup>Indicative only. China 4 emissions limits under definition

### Main Applications

Fruit Yard/Vineyard Tractor	Line Striper	Welder
Fruit Picking/Harvesting	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Telescopic Handler	Aerial Platform
Water Pump (Irrigation)	Skid Steer Loader	Stringing Equipment
Wood Chipper	Backhoe Loader	Pressure Washer
Concrete Mixer	Wheeled Loader	Firefighting Pump
Concrete Sprayer	Self-Priming Water Pump	Forklift
Excavator	Air Compressor	
Compaction Roller	Generator Set	



# KDI

## 2504TCR

### Customer Benefits

- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	88 x 102
Displacement (cm <sup>3</sup> )	2482
Aspiration	Turbocharged
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	11.3
Length (mm)	704.3
Width (mm)	523.2
Height (mm)	719.5
Dry weight (kg)	267
Max. power kW (hp) @ rpm	55.4 (74.0) @ 2600
Maximum torque (Nm @ rpm)	300.0 @ 1500
Emissions compliance	EU Stage III/B, EU Stage V*, U.S. Tier 4 Final, China 3, China 4†

\*Introduction date: 2019

†Indicative only. China 4 emissions limits under definition

### Main Applications

Fruit Yard/Vineyard Tractor	Line Striper	Welder
Fruit Picking/Harvesting	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Telescopic Handler	Aerial Platform
Water Pump (Irrigation)	Skid Steer Loader	Stringing Equipment
Wood Chipper	Backhoe Loader	Pressure Washer
Concrete Mixer	Wheeled Loader	Firefighting Pump
Concrete Sprayer	Self-Priming Water Pump	Forklift
Excavator	Air Compressor	
Compaction Roller	Generator Set	

# KDI 2504M



## Customer Benefits

- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

### Main Specs

Number of cylinders	4
Bore and stroke (mm)	88 x 102
Displacement (cm <sup>3</sup> )	2482
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	11.3
Length (mm)	704.3
Width (mm)	452.5
Height (mm)	667.5
Dry weight (kg)	244
Max. power kW (hp) @ rpm	36.4 (49.0) @ 2600
Maximum torque (Nm @ rpm)	170.0 @ 1500
Emissions compliance	EU Stage III/A

## Main Applications

Fruit Yard/Vineyard Tractor	Line Stripper	Welder
Fruit Picking/Harvesting	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Telescopic Handler	Aerial Platform
Water Pump (Irrigation)	Skid Steer Loader	Stringing Equipment
Wood Chipper	Backhoe Loader	Pressure Washer
Concrete Mixer	Wheeled Loader	Firefighting Pump
Concrete Sprayer	Self-Priming Water Pump	Forklift
Excavator	Air Compressor	
Compaction Roller	Generator Set	



# KDI 1903TCR

## Customer Benefits

- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

### Main Specs

Number of cylinders	3
Bore and stroke (mm)	88 x 102
Displacement (cm <sup>3</sup> )	1861
Aspiration	Turbocharged
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	8.5
Length (mm)	598.3
Width (mm)	530
Height (mm)	726
Dry weight (kg)	233
Max. power kW (hp) @ rpm	42.0 (56.0) @ 2600
Maximum torque (Nm @ rpm)	225.0 @ 1500
Emissions compliance	EU Stage III/B, EU Stage V*, U.S. Tier 4 Final, China 3, China 4†

\*Introduction date: 2019

†Indicative only. China 4 emissions limits under definition

## Main Applications

Fruit Yard/Vineyard Tractor	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Skid Steer Loader	Aerial Platform
Water Pump (Irrigation)	Wheeled Loader	Stringing Equipment
Concrete Sprayer	Self-Priming Water Pump	Pressure Washer
Dumper	Air Compressor	Firefighting Pump
Excavator	Generator Set	Forklift
Compaction Roller	Refrigeration Unit	
Asphalt Cutter	Welder	

# KDI 1903M



## Customer Benefits

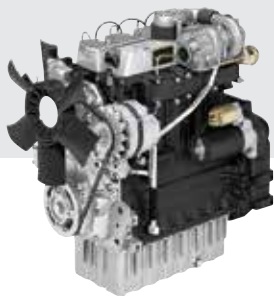
- Maximize Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Fuel Saving

### Main Specs

Number of cylinders	3
Bore and stroke (mm)	88 x 102
Displacement (cm <sup>3</sup> )	1861
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	8.5
Length (mm)	598.3
Width (mm)	452.5
Height (mm)	667.5
Dry weight (kg)	210
Max. power kW (hp) @ rpm	31.0 (42.0) @ 2600
Maximum torque (Nm @ rpm)	133.0 @ 1500
Emissions compliance	EU Stage III/A

## Main Applications

Fruit Yard/Vineyard Tractor	Compact Shovel Loader	Motor Sweeper
4WD Tractor	Skid Steer Loader	Aerial Platform
Water Pump (Irrigation)	Wheeled Loader	Stringing Equipment
Concrete Sprayer	Self-Priming Water Pump	Pressure Washer
Dumper	Air Compressor	Firefighting Pump
Excavator	Generator Set	Forklift
Compaction Roller	Refrigeration Unit	
Asphalt Cutter	Welder	



# KDW

## 2204/T

### Customer Benefits

- High Torque Density
- Heavy-Duty Design
- Compactness

#### Main Specs

Number of cylinders	4
Bore and stroke (mm)	88 x 90.4
Displacement (cm <sup>3</sup> )	2199
Aspiration	Turbocharged
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29, 45
Oil sump capacity (l)	4.5 / 5.7*
Length (mm)	663
Width (mm)	471.1
Height (mm)	640.4
Dry weight (kg)	197
Max. power kW (hp) @ rpm	44.3 (60.2) @ 3000
Maximum torque (Nm @ rpm)	190.0 @ 1800
Emissions compliance	EU Stage III/A

\*Without dynamic horizontal stabilizer

### Main Applications

Fruit Yard/Vineyard Tractor	Concrete Mixer	Compact Shovel Loader
Fruit Picking/Harvesting	Concrete Sprayer	Generator Set
4WD Tractor	Dumper	Refrigeration Unit
Water Pump (Irrigation)	Compaction Roller	Motor Sweeper
Wood Chipper	Line Stripper	Aerial Platform



# KDW

## 2204



### Customer Benefits

- High Torque Density
- Heavy-Duty Design
- Compactness

#### Main Specs

Number of cylinders	4
Bore and stroke (mm)	88 x 90.4
Displacement (cm <sup>3</sup> )	2199
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29, 45
Oil sump capacity (l)	4.5 / 5.7*
Length (mm)	663
Width (mm)	445
Height (mm)	593.15
Dry weight (kg)	192
Max. power kW (hp) @ rpm	34.5 (46.9) @ 3000
Maximum torque (Nm @ rpm)	144.0 @ 2000
Emissions compliance	EU Stage III/A

\*Without dynamic horizontal stabilizer

### Main Applications

Fruit Yard/Vineyard Tractor  
 Fruit Picking/Harvesting  
 4WD Tractor  
 Water Pump (Irrigation)  
 Wood Chipper

Concrete Mixer  
 Concrete Sprayer  
 Dumper  
 Compaction Roller  
 Line Stripper

Compact Shovel Loader  
 Generator Set  
 Refrigeration Unit  
 Motor Sweeper  
 Aerial Platform



# KDW 1603

## Customer Benefits

- High Torque Density
- Heavy-Duty Design
- Compactness

### Main Specs

Number of cylinders	3
Bore and stroke (mm)	88 x 90.4
Displacement (cm <sup>3</sup> )	1649
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29, 45
Oil sump capacity (l)	3.8
Length (mm)	563
Width (mm)	445
Height (mm)	593.15
Dry weight (kg)	156
Max. power kW (hp) @ rpm	27.6 (37.5) @ 3000
Maximum torque (Nm @ rpm)	106.5 @ 1600
Emissions compliance	EU Stage III/A, EU Stage V*

\*Introduction date: 2019

## Main Applications

Fruit Yard/Vineyard Tractor	Concrete Sprayer	Generator Set
Fruit Picking/Harvesting	Dumper	Refrigeration Unit
4WD Tractor	Compaction Roller	Motor Sweeper
Concrete Mixer	Compact Shovel Loader	Aerial Platform

# KDW 1404



## Customer Benefits

- Modern Design
- Compactness
- Low Noise
- Low Weight

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	75 x 77.6
Displacement (cm <sup>3</sup> )	1372
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29
Oil sump capacity (l)	3.2
Length (mm)	599
Width (mm)	412
Height (mm)	519
Dry weight (kg)	98
Max. power kW (hp) @ rpm	24.5 (33.3) @ 3600
Maximum torque (Nm @ rpm)	84.0 @ 2000
Emissions compliance	EU Stage III/A, EU Stage V*, U.S. Tier 4 Final <sup>†</sup> , China 3, China 4 <sup>†</sup>

*\*Introduction date: 2019*

*<sup>†</sup>Indicative only. China 4 emissions limits under definition*

*<sup>‡</sup>Power setting will vary based on local emissions compliance*

## Main Applications

Lawn Mower

Fruit Yard/Vineyard Tractor

Fruit Picking/Harvesting

Wood Chipper

Concrete Mixer

Concrete Sprayer

Vibrating Plate

Generator Set

Refrigeration Unit

Motor Sweeper

Aerial Platform

Stringing Equipment

Pressure Washer



# KDW 1003

## Customer Benefits

- Modern Design
- Compactness
- Low Noise
- Low Weight

### Main Specs

Number of cylinders	3
Bore and stroke (mm)	75 x 77.6
Displacement (cm <sup>3</sup> )	1028
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29
Oil sump capacity (l)	2.4
Length (mm)	516
Width (mm)	412
Height (mm)	519
Dry weight (kg)	85
Max. power kW (hp) @ rpm	18.0 (24.5) @ 3600
Maximum torque (Nm @ rpm)	67.0 @ 2000
Emissions compliance	EU Stage V*, U.S. Tier 4 Final†, China 3, China 4†

\*Introduction date: 2019

†Indicative only. China 4 emissions limits under definition

‡Power setting will vary based on local emissions compliance

## Main Applications

Lawn Mower	Mini Excavator	Motor Sweeper
Fruit Yard/Vineyard Tractor	Compaction Roller	Aerial Platform
Fruit Picking/Harvesting	Trench Roller	Stringing Equipment
Wood Chipper	Vibrating Plate	Pressure Washer
Concrete Mixer	Compact Shovel Loader	Recreational Vehicles (ATV)
Concrete Sprayer	Generator Set	Utility Vehicles (UTV)
Minidumper	Refrigeration Unit	

# KDW

## 702



### Customer Benefits

- Modern Design
- Compactness
- Low Noise
- Low Weight

#### Main Specs

Number of cylinders	2
Bore and stroke (mm)	75 x 77.6
Displacement (cm <sup>3</sup> )	686
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29
Oil sump capacity (l)	1.6
Length (mm)	424
Width (mm)	412
Height (mm)	519
Dry weight (kg)	66
Max. power kW (hp) @ rpm	11.7 (16.0) @ 3600
Maximum torque (Nm @ rpm)	40.5 @ 2000
Emissions compliance	EU Stage V*, U.S. Tier 4 Final <sup>†</sup> , China 3, China 4 <sup>†</sup>

\*Introduction date: 2019

<sup>†</sup>Indicative only. China 4 emissions limits under definition

<sup>‡</sup>Power setting will vary based on local emissions compliance

### Main Applications

Mini Excavator

Compaction Roller

Vibrating Plate

Generator Set

Motor Sweeper

Aerial Platform

Minicar

Recreational Vehicles (ATV)



# KDW 502

## Customer Benefits

- Modern Design
- Compactness
- Low Noise
- Low Weight

### Main Specs

Number of cylinders	2
Bore and stroke (mm)	72 x 62
Displacement (cm <sup>3</sup> )	505
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Indirect injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	1.4
Length (mm)	426
Width (mm)	387
Height (mm)	490
Dry weight (kg)	54
Max. power kW (hp) @ rpm	8.6 (11.7) @ 3600
Maximum torque (Nm @ rpm)	40.5 @ 2200
Emissions compliance	EU Stage V*

\*Introduction date: 2019

## Main Applications

Mini Excavator

Compaction Roller

Vibrating Plate

Generator Set

Motor Sweeper

Aerial Platform

Minicar

Recreational Vehicles (ATV)

# LDW

## 492



### Customer Benefits

- Excellent Fuel Efficiency
- Low Vibration
- Low Noise
- Compactness

#### Main Specs

Number of cylinders	2
Bore and stroke (mm)	69 x 64
Displacement (cm <sup>3</sup> )	478
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	NA
Oil sump capacity (l)	2.1
Length (mm)	500
Width (mm)	493
Height (mm)	526
Dry weight (kg)	48.5
Max. power kW (hp) @ rpm	8.5 (11.5) @ 3600
Maximum torque (Nm @ rpm)	28.0 @ 2200
Emissions compliance	Euro 4

### Main Applications

Minicar



# KD

## 626/3

### Customer Benefits

- High Power Density
- Long Engine Life
- High Torque
- High Reliability

#### Main Specs

Number of cylinders	3
Bore and stroke (mm)	95 x 88
Displacement (cm <sup>3</sup> )	1870
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	Options available 7, 10, 12, 15
Oil sump capacity (l)	5
Length (mm)	770
Width (mm)	495
Height (mm)	686
Dry weight (kg)	170
Max. power kW (hp) @ rpm	26.0 (35.4) @ 3000
Maximum torque (Nm @ rpm)	102.0 @ 2000
Emissions compliance	U.S. Tier 3

### Main Applications

Minidumper	Motor Welder
Self-Priming Water Pump	Motor Sweepers
Generator Set	Aerial Platform
Refrigeration Unit	Firefighting Pump



# KD

## 625/2



### Customer Benefits

- High Power Density
- Long Engine Life
- High Torque
- High Reliability

Main Specs	
Number of cylinders	2
Bore and stroke (mm)	95 x 88
Displacement (cm <sup>3</sup> )	1248
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	Options available 7, 10, 12
Oil sump capacity (l)	2.8
Length (mm)	633
Width (mm)	557
Height (mm)	599
Dry weight (kg)	115
Max. power kW (hp) @ rpm	18.8 (25.5) @ 3000
Maximum torque (Nm @ rpm)	67.0 @ 2000
Emissions compliance	U.S. Tier 3

### Main Applications

Fruit Yard/Vineyard Tractors	Self-Priming Water Pump	Motor Sweepers
Water Pump (Irrigation)	Air Compressor	Aerial Platform
Concrete Sprayer	Generator Set	Pressure Washer
Minidumper	Refrigeration Unit	Firefighting Pump
Vibrating Plate	Motor Welder	



# KD 477/2

## Customer Benefits

- High Power Density
- Long Engine Life
- High Torque
- High Reliability

### Main Specs

Number of cylinders	2
Bore and stroke (mm)	90 x 75
Displacement (cm <sup>3</sup> )	954
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	Options available 7, 10, 12
Oil sump capacity (l)	2.5
Length (mm)	577
Width (mm)	483
Height (mm)	565
Dry weight (kg)	78
Max. power kW (hp) @ rpm	15.7 (21.4) @ 3600
Maximum torque (Nm @ rpm)	55.0 @ 2100
Emissions compliance	U.S. Tier 3

## Main Applications

Fruit Yard/Vineyard Tractors	Self-Priming Water Pump	Motor Sweepers
Water Pump (Irrigation)	Air Compressor	Aerial Platform
Concrete Sprayer	Generator Set	Pressure Washer
Minidumper	Refrigeration Unit	Firefighting Pump
Vibrating Plate	Motor Welder	

# KD

## 425/2



### Customer Benefits

- High Power Density
- Long Engine Life
- High Torque
- High Reliability

Main Specs	
Number of cylinders	2
Bore and stroke (mm)	85 x 75
Displacement (cm <sup>3</sup> )	851
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	Options available 4, 6
Oil sump capacity (l)	1.7
Length (mm)	485
Width (mm)	464
Height (mm)	503.5
Dry weight (kg)	63
Max. power kW (hp) @ rpm	13.0 (17.7) @ 3600
Maximum torque (Nm @ rpm)	42.0 @ 2200
Emissions compliance	EU Stage V*, U.S. Tier 4 Final†

\*Introduction date: 2019

†Power setting will vary based on local emissions compliances

### Main Applications

Fruit Yard/Vineyard Tractors	Self-Priming Water Pump	Motor Sweepers
Water Pump (Irrigation)	Air Compressor	Aerial Platform
Concrete Sprayer	Generator Set	Pressure Washer
Minidumper	Refrigeration Unit	Firefighting Pump
Vibrating Plate	Motor Welder	



# KD 330/2

## Customer Benefits

- High Power Density
- Long Engine Life
- High Torque
- High Reliability

### Main Specs

Number of cylinders	2
Bore and stroke (mm)	80 x 65
Displacement (cm <sup>3</sup> )	654
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	Options available 4, 6
Oil sump capacity (l)	1.5
Length (mm)	485
Width (mm)	438
Height (mm)	485
Dry weight (kg)	60
Max. power kW (hp) @ rpm	11.2 (15.2) @ 3600
Maximum torque (Nm @ rpm)	32.0 @ 2400
Emissions compliance	No regulations

## Main Applications

Fruit Yard/Vineyard Tractors	Self-Priming Water Pump	Motor Sweepers
Water Pump (Irrigation)	Air Compressor	Aerial Platform
Concrete Sprayer	Generator Set	Pressure Washer
Minidumper	Refrigeration Unit	Firefighting Pump
Vibrating Plate	Motor Welder	

# 3LD

## 510



### Customer Benefits

- Exceptional Robustness and Reliability
- Easy Maintenance
- Clockwise/Counterclockwise Rotation
- Optional Oil Bath Air Cleaner

#### Main Specs

Number of cylinders	1
Bore and stroke (mm)	85 x 90
Displacement (cm <sup>3</sup> )	510
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	5.3
Oil sump capacity (l)	1.75
Length (mm)	466
Width (mm)	422
Height (mm)	568
Dry weight (kg)	60
Max. power kW (hp) @ rpm	7.3 (10.0) @ 3000
Maximum torque (Nm @ rpm)	33.5 @ 1800
Emissions compliance	No regulations

### Main Applications

Walk-Behind Tractor

Lawn Mower



# KD15

## 500

### Customer Benefits

- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	87 x 85
Displacement (cm <sup>3</sup> )	505
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	5
Oil sump capacity (l)	1.5
Length (mm)	415
Width (mm)	355
Height (mm)	504
Dry weight (kg)	48
Max. power kW (hp) @ rpm	8.2 (11.1) @ 3600
Maximum torque (Nm @ rpm)	30.0 @ 2200
Emissions compliance	No regulations

### Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump

# KD15

## 440



### Customer Benefits

- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	86 x 76
Displacement (cm <sup>3</sup> )	441
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	4.3
Oil sump capacity (l)	1.2
Length (mm)	412.8
Width (mm)	340
Height (mm)	493.1
Dry weight (kg)	45
Max. power kW (hp) @ rpm	7.4 (10.1) @ 3600
Maximum torque (Nm @ rpm)	24.5 @ 2200
Emissions compliance	EU Stage V*, U.S. Tier 4 Final†

\*Introduction date: 2019

†Power setting will vary based on local emissions compliance

### Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump



# KD15 440S

## Customer Benefits

- Low Noise
- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

### Main Specs

Number of cylinders	1
Bore and stroke (mm)	86 x 76
Displacement (cm <sup>3</sup> )	441
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	4.3
Oil sump capacity (l)	1.2
Length (mm)	412.8
Width (mm)	352
Height (mm)	493.1
Dry weight (kg)	45
Max. power kW (hp) @ rpm	6.8 (9.2) @ 3600
Maximum torque (Nm @ rpm)	22.5 @ 2100
Emissions compliance	No regulations

## Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump



# KD15

## 350



### Customer Benefits

- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

#### Main Specs

Number of cylinders	1
Bore and stroke (mm)	82 x 66
Displacement (cm <sup>3</sup> )	349
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	4.3
Oil sump capacity (l)	1.2
Length (mm)	386.5
Width (mm)	300.9
Height (mm)	445.5
Dry weight (kg)	33
Max. power kW (hp) @ rpm	5.1 (7.0) @ 3600
Maximum torque (Nm @ rpm)	16.6 @ 2400
Emissions compliance	EU Stage V*, U.S. Tier 4 Final†

\*Introduction date: 2019

†Power setting will vary based on local emissions compliance

### Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump



# KD15

## 350S

### Customer Benefits

- Low Noise
- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

### Main Specs

Number of cylinders	1
Bore and stroke (mm)	82 x 66
Displacement (cm <sup>3</sup> )	349
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	4.3
Oil sump capacity (l)	1.2
Length (mm)	386.5
Width (mm)	310.5
Height (mm)	445.5
Dry weight (kg)	33
Max. power kW (hp) @ rpm	4.6 (6.2) @ 3600
Maximum torque (Nm @ rpm)	14.7 @ 2200
Emissions compliance	No regulations

### Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump

# KD15

## 225



### Customer Benefits

- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

#### Main Specs

Number of cylinders	1
Bore and stroke (mm)	69 x 60
Displacement (cm <sup>3</sup> )	224
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	3
Oil sump capacity (l)	0.9
Length (mm)	358
Width (mm)	265
Height (mm)	417
Dry weight (kg)	28
Max. power kW (hp) @ rpm	3.3 (4.5) @ 3600
Maximum torque (Nm @ rpm)	10.4 @ 2400
Emissions compliance	No regulations

### Main Applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump



# KD15

## 225S

### Customer Benefits

- Low Noise
- High Power Density
- Low Weight
- Low Fuel Consumption
- Low Oil Consumption
- Complete Range of Accessories

### Main Specs

Number of cylinders	1
Bore and stroke (mm)	69 x 60
Displacement (cm <sup>3</sup> )	224
Aspiration	Naturally aspirated
Cycle	Four-stroke
Combustion system	Direct injection
Rotation	Counterclockwise (view from main PTO side)
Cooling system	Air
Fuel tank capacity (l)	3
Oil sump capacity (l)	0.9
Length (mm)	358
Width (mm)	275
Height (mm)	417
Dry weight (kg)	28
Max. power kW (hp) @ rpm	2.5 (3.4) @ 3000
Maximum torque (Nm @ rpm)	9.8 @ 2000
Emissions compliance	No regulations

### Main applications

Walk-Behind Tractor

Tiller

Lawn Mower

Water Pump (Irrigation)

Concrete Mixer

Minidumper

Compaction Roller

Vibrating Plate

Asphalt Cutter

Line Striper

Self-Priming Water Pump

Air Compressor

Generator Set

Welder

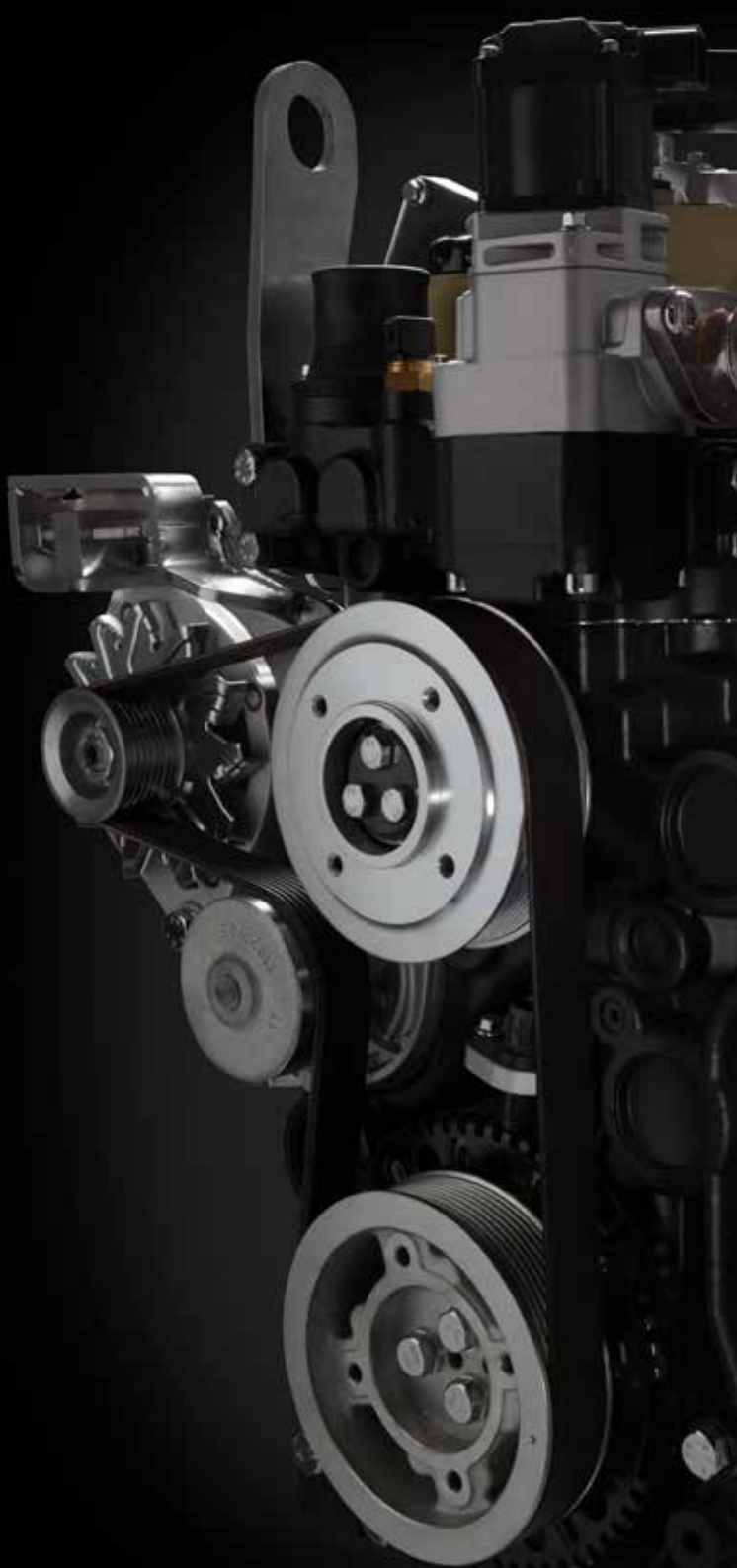
Motor Sweeper

Aerial Platform

Pressure Washer

Firefighting Pump







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KOHLER Diesel KD

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4/18

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