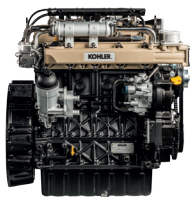


DIESEL ENGINES GUIDE



KOHLER[®]
IN POWER. SINCE 1920.

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Off-road Engines

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POWER - VARIABLE SPEED RATINGS

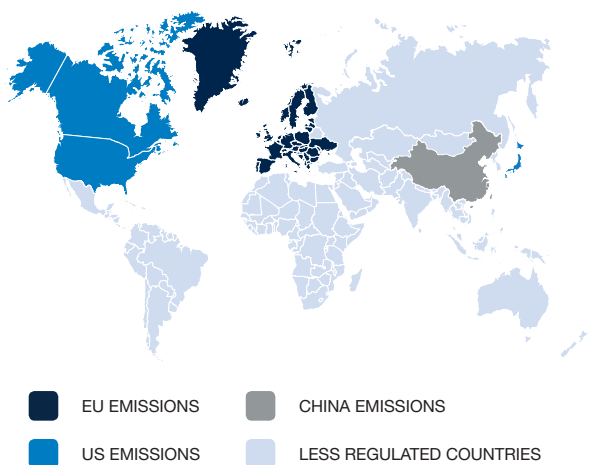
Engines		Power (kW) ISO 3046 IFN and ISO 14396											
		2.5	3.3	4.6	5.1	6.8	7.3	7.4	8.2	8.5	8.6	11.2	
KDI Range	KDI 3404TCR-SCR												
	KDI 3404TCR												
	KDI 2504TCR												
	KDI 2504M												
	KDI 1903TCR												
	KDI 1903M												
CHD Range	KDW 2204/T												
	KDW 2204												
	KDW 1603												
FOCS Range	KDW 1404												
	KDW 1003												
	KDW 702												
	KDW 502*										•		
	LDW 492*									•			
Air Cooled Range	KD 626/3												
	KD 625/2												
	KD 477/2												
	KD 425/2												
	KD 330/2											•	
	3 LD 510						•						
	KD15-500								•				
	KD15-440							•					
	KD15-440S					•							
	KD15-350				•								
	KD15-350S			•									
	KD15-225		•										
	KD15-225S	•											

*80/1269/CEE - ISO 1585

	Power (kW) ISO 3046 IFN and ISO 14396															rpm
	11.7	13.0	15.7	18.0	18.8	24.5	26.0	27.6	31.0	34.5	36.4	42.0	44.3	55.4	100.0	
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														•		2200
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EMISSIONS REGULATIONS

The next stage of EU Emission standards comes into force in 2019 (< 56 kW and \geq 130 kW) and 2020 (56-130 kW) for non-road machinery equipped with diesel engines. The standards will continue the path towards reduction of NO_x 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 number of particulates (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 the Stage V in 2019 (19 kW - 56 kW) and in 2020 (>56 kW) with the aim of reducing particulate numbers and mass
- The US is currently regulated by EPA Tier 4 final
- Countries such as Switzerland or Japan refer to specific norms that move to the same levels of specifications
- Countries, such as Brazil, Russia and Chile, require less stringent levels
- Other countries could be considered as non-regulated ones

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 state-of-the-art high-pressure common rail (2000bar), 4 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										
	Devices	Europe				North America & Canada			China	
		EA	EB	E4	EV	U3	U4	UF	C3	C4
		Stage III/A	Stage III/B	Stage IV	Stage V*	Tier 3	Tier 4 Interim	Tier 4 Final	China 3	China 4****
<56kW	Mechanical Injection	•								•
	Common Rail		•		•	•		•	•	(•****)
	C-EGR		•		•			•		•
	DOC		•		•			•		•
	DPF				•			(•**)		
>56kW	Common Rail			•	•	•		•	•	(•****)
	C-EGR			•		•		•	•	•
	DOC			•	•			•		•
	DPF				•			(•**)		
	SCR			•	•			•		

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

** : on selected model

***: limited to sulfur content in the diesel

****: indicative only. China 4 emissions limits under definition

ENGINES COMPLIANCE

Engines		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 LD 510					
	KD 330/2					
	KD 425/2				•	
	KD 477/2					
	KD 625/2					
	KD 626/3					
FOCS Range	KDW 502				•	
	KDW 702				•	
	KDW 1003				•	
	KDW 1404	•			•	
CHD Range	KDW 1603	•			•	
	KDW 2204	•				
	KDW 2204/T	•				
KDI Range	KDI 1903M	•				
	KDI 1903TCR		•		•	
	KDI 2504M	•				
	KDI 2504TCR		•		•	
	KDI 3404TCR		•		•	
	KDI 3404TCR-SCR			•	•	

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

** : 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 4**	
						•
						•
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KDI

3404TCR-SCR

Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	96 x 116
Displacement (cm ³)	3359
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage IV, EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2020

** : indicative only. China 4 emissions limits under definition

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Water Pump (Irrigation)
Wood Chipper
Concrete Mixer
Concrete Sprayer
Excavator
Compaction Roller

Line Striper
Compact Shovel Loader
Telescopic Handler
Skid Steer Loader
Back Hoe Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set

Welder
Motor Sweeper
Aerial Platform
Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift

KDI

3404TCR



Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	96 x 116
Displacement (cm ³)	3359
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage III/B, EU Stage V*, US Tier 4 Final, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Water Pump (Irrigation)
Wood Chipper
Concrete Mixer
Concrete Sprayer
Excavator
Compaction Roller

Line Striper
Compact Shovel Loader
Telescopic Handler
Skid Steer Loader
Back Hoe Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set

Welder
Motor Sweeper
Aerial Platform
Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift



KDI 2504TCR

Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	88 x 102
Displacement (cm ³)	2482
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage III/B, EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Water Pump (Irrigation)
Wood Chipper
Concrete Mixer
Concrete Sprayer
Excavator
Compaction Roller

Line Striper
Compact Shovel Loader
Telescopic Handler
Skid Steer Loader
Back Hoe Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set

Welder
Motor Sweeper
Aerial Platform
Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift

KDI

2504M



Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

Main Specs	
Number of cylinders	4
Bore and stroke (mm)	88 x 102
Displacement (cm³)	2482
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage III/A

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Water Pump (Irrigation)
Wood Chipper
Concrete Mixer
Concrete Sprayer
Excavator
Compaction Roller

Line Striper
Compact Shovel Loader
Telescopic Handler
Skid Steer Loader
Back Hoe Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set

Welder
Motor Sweeper
Aerial Platform
Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift



KDI 1903TCR

Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

Main Specs	
Number of cylinders	3
Bore and stroke (mm)	88 x 102
Displacement (cm ³)	1861
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage III/B, EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

Fruityard/Vinyard Tractor
4WD Tractor
Water Pump (Irrigation)
Concrete Sprayer
Dumper
Excavator
Compaction Roller
Asphalt Cutter
Compact Shovel Loader

Skid Steer Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set
Refrigerating Groups
Welder
Motor Sweeper
Aerial Platform

Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift

KDI 1903M



Customer Benefits

- Increase Machine Productivity
- Application Flexibility
- Long Service Intervals
- Reliability and Safety
- Compactness
- Best Comfort
- Fuel Saving
- Fun to Drive

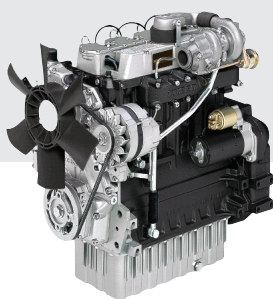
Main Specs	
Number of cylinders	3
Bore and stroke (mm)	88 x 102
Displacement (cm ³)	1861
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
Oil sump capacity (l)	8.5
Length (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
Emission Compliance	EU Stage III/A

Main applications

Fruityard/Vinyard Tractor
4WD Tractor
Water Pump (Irrigation)
Concrete Sprayer
Dumper
Excavator
Compaction Roller
Asphalt Cutter
Compact Shovel Loader

Skid Steer Loader
Wheeled Loader
Self-Priming Water Pump
Air Compressor
Generator Set
Refrigerating Groups
Welder
Motor Sweeper
Aerial Platform

Stringing Equipment
High Pressure Washer
Fire fighting pump
Forklift



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 ³)	2199
Aspiration	Turbocharged
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage III/A

***: without dynamic horizontal stabilizer

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Water Pump (Irrigation)
Wood Chipper
Concrete Mixer
Concrete Sprayer
Dumper
Compaction Roller

Line Striper
Compact Shovel Loader
Generator Set
Refrigerating Groups
Motor Sweeper
Aerial Platform

KDW

2204



Customer Benefits

- High Torque Density
- Heavy Duty Design
- Compactness

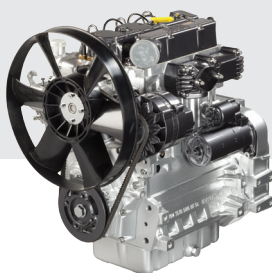
Main Specs	
Number of cylinders	4
Bore and stroke (mm)	88 x 90.4
Displacement (cm³)	2199
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29, 45
Oil 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
Emission Compliance	EU Stage III/A

***: without dynamic horizontal stabilizer

Main applications

Fruityard/Vinyard 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
Refrigerating Groups
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 ³)	1649
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage III/A, EU Stage V*

*: introduction date: 2019

Main applications

Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
4WD Tractor
Concrete Mixer
Concrete Sprayer
Dumper
Compaction Roller
Compact Shovel Loader
Generator Set

Refrigerating Groups
Motor Sweeper
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 ³)	1372
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage III/A, EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

Lawn Mower
Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
Wood Chipper
Concrete Mixer
Concrete Sprayer
Vibrating Plate
Generator Set
Refrigerating Groups

Motor Sweeper
Aerial Platform
Stringing Equipment
High 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 ³)	1028
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

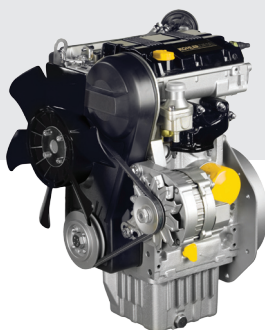
Lawn Mower
Fruityard/Vinyard Tractor
Fruit Picking/Harvesting
Wood Chipper
Concrete Mixer
Concrete Sprayer
Minidumper
Mini Excavator
Compaction Roller

Trench Roller
Vibrating Plate
Compact Shovel Loader
Generator Set
Refrigerating Groups
Motor Sweeper
Aerial Platform
Stringing Equipment
High Pressure Washer

Leisure Vehicles (ATV)
Utility Vehicles (UTV)

KDW

702



Customer Benefits

- Modern Design
- Compactness
- Low Noise
- Low Weight

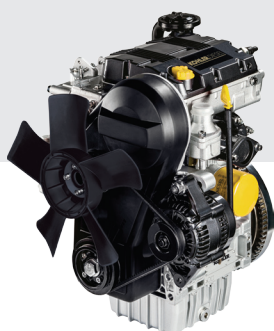
Main Specs	
Number of cylinders	2
Bore and stroke (mm)	75 x 77.6
Displacement (cm ³)	686
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	Options available 7, 15, 29
Oil sump 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
Emission Compliance	EU Stage V*, US Tier 4 Final, China 3, China 4**

*: introduction date: 2019

**: indicative only. China 4 emissions limits under definition

Main applications

Mini Excavator
 Compaction Roller
 Vibrating Plate
 Generator Set
 Motor Sweeper
 Aerial Platform
 Mini-car
 Leisure 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 ³)	505
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	EU Stage V*

*: introduction date: 2019

Main applications

Mini Excavator
 Compaction Roller
 Vibrating Plate
 Generator Set
 Motor Sweeper
 Aerial Platform
 Mini-car
 Leisure Vehicles (ATV)

LDW

492



Customer Benefits

- Excellent Fuel Efficiency
- Low Vibrations
- Low Noise
- Compactness

Main Specs	
Number of cylinders	2
Bore and stroke (mm)	69 x 64
Displacement (cm ³)	478
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (view on the flywheel)
Cooling system	Liquid
Fuel tank capacity (l)	n.a.
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
Emission Compliance	Euro 4

Main applications

Mini-car



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 ³)	1870
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	US Tier 3

Main applications

Minidumper
 Self-Priming Water Pump
 Generator Set
 Refrigerating groups
 Motor welder
 Motor sweepers
 Aerial Platform
 Fire fighting 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 (cm³)	1248
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	US Tier 3

Main applications

- | | |
|----------------------------|----------------------|
| Fruityard/Vinyard Tractors | Motor welder |
| Water Pump (Irrigation) | Motor sweepers |
| Concrete Sprayer | Aerial Platform |
| Minidumper | High pressure washer |
| Vibrating plate | Fire fighting pump |
| Self-Priming Water Pump | |
| Air Compressor | |
| Generator Set | |
| Refrigerating groups | |



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 ³)	954
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	US Tier 3

Main applications

- | | |
|----------------------------|----------------------|
| Fruityard/Vinyard Tractors | Motor welder |
| Water Pump (Irrigation) | Motor sweepers |
| Concrete Sprayer | Aerial Platform |
| Minidumper | High pressure washer |
| Vibrating plate | Fire fighting pump |
| Self-Priming Water Pump | |
| Air Compressor | |
| Generator Set | |
| Refrigerating groups | |

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 ³)	851
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage V*, US Tier 4 Final

*: introduction date: 2019

Main applications

- | | |
|----------------------------|----------------------|
| Fruityard/Vinyard Tractors | Motor welder |
| Water Pump (Irrigation) | Motor sweepers |
| Concrete Sprayer | Aerial Platform |
| Minidumper | High pressure washer |
| Vibrating plate | Fire fighting pump |
| Self-Priming Water Pump | |
| Air Compressor | |
| Generator Set | |
| Refrigerating groups | |



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 ³)	654
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

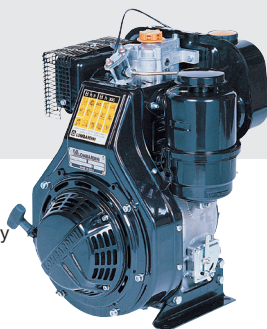
- | | |
|----------------------------|----------------------|
| Fruityard/Vinyard Tractors | Motor welder |
| Water Pump (Irrigation) | Motor sweepers |
| Concrete Sprayer | Aerial Platform |
| Minidumper | High pressure washer |
| Vibrating plate | Fire fighting pump |
| Self-Priming Water Pump | |
| Air Compressor | |
| Generator Set | |
| Refrigerating groups | |

3LD

510

Customer Benefits

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



Main Specs	
Number of cylinders	1
Bore and stroke (mm)	85 x 90
Displacement (cm ³)	510
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission 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
- A Complete Range of Accessories

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	87 x 85
Displacement (cm ³)	505
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

Walk-behind Tractor
Tiller
Lawn Mower
Water Pump (Irrigation)
Concrete Mixer
Minidumper
Compaction Roller
Vibrating Plate
Asphalt Cutter

Line Stripper
Self-Priming Water Pump
Air Compressor
Generator Set
Welder
Motor Sweeper
Aerial Platform
High Pressure Washer
Fire fighting pump

KD15

440



Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	86 x 76
Displacement (cm ³)	441
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage V*, US Tier 4 Final

*: introduction date: 2019

Main applications

Walk-behind Tractor
Tiller
Lawn Mower
Water Pump (Irrigation)
Concrete Mixer
Minidumper
Compaction Roller
Vibrating Plate
Asphalt Cutter

Line Stripper
Self-Priming Water Pump
Air Compressor
Generator Set
Welder
Motor Sweeper
Aerial Platform
High Pressure Washer
Fire fighting pump



KD15 440S

Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	86 x 76
Displacement (cm ³)	441
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

Walk-behind Tractor
Tiller
Lawn Mower
Water Pump (Irrigation)
Concrete Mixer
Minidumper
Compaction Roller
Vibrating Plate
Asphalt Cutter

Line Stripper
Self-Priming Water Pump
Air Compressor
Generator Set
Welder
Motor Sweeper
Aerial Platform
High Pressure Washer
Fire fighting pump

KD15

350



Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	82 x 66
Displacement (cm ³)	349
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	EU Stage V*, US Tier 4 Final

*: introduction date: 2019

Main applications

Walk-behind Tractor	Line Striper
Tiller	Self-Priming Water Pump
Lawn Mower	Air Compressor
Water Pump (Irrigation)	Generator Set
Concrete Mixer	Welder
Minidumper	Motor Sweeper
Compaction Roller	Aerial Platform
Vibrating Plate	High Pressure Washer
Asphalt Cutter	Fire fighting pump



KD15 350S

Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	82 x 66
Displacement (cm ³)	349
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

Walk-behind Tractor
Tiller
Lawn Mower
Water Pump (Irrigation)
Concrete Mixer
Minidumper
Compaction Roller
Vibrating Plate
Asphalt Cutter

Line Stripper
Self-Priming Water Pump
Air Compressor
Generator Set
Welder
Motor Sweeper
Aerial Platform
High Pressure Washer
Fire fighting pump

KD15

225



Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	69 x 60
Displacement (cm³)	224
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

Walk-behind Tractor	Line Striper
Tiller	Self-Priming Water Pump
Lawn Mower	Air Compressor
Water Pump (Irrigation)	Generator Set
Concrete Mixer	Welder
Minidumper	Motor Sweeper
Compaction Roller	Aerial Platform
Vibrating Plate	High Pressure Washer
Asphalt Cutter	Fire fighting pump



KD15

225S

Customer Benefits

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

Main Specs	
Number of cylinders	1
Bore and stroke (mm)	69 x 60
Displacement (cm ³)	224
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Direct injection
Rotation	Counter-clockwise (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
Emission Compliance	No regulations

Main applications

Walk-behind Tractor
Tiller
Lawn Mower
Water Pump (Irrigation)
Concrete Mixer
Minidumper
Compaction Roller
Vibrating Plate
Asphalt Cutter

Line Stripper
Self-Priming Water Pump
Air Compressor
Generator Set
Welder
Motor Sweeper
Aerial Platform
High Pressure Washer
Fire fighting pump

NOTE

NOTE

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