

# LIQUID COOLED DIESEL ENGINES

8.6 – 47.0 kW | 11.5 – 63 hp



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

# WATER COOLED DIESEL ENGINES

## STANDARD EQUIPMENT

- External spin-on type oil filter
- Exhaust manifold
- Intake manifold
- Suction fan
- Accelerator control
- Electric starter motor and alternator 12V
- Thermostat valve
- Flywheel with ring gear
- Fuel feeding mechanical pump
- Coolant pump
- Flanging backplate
- Electric stop
- Glow Plug Control Unit 12V
- Fuel filter engine mounted





## ACCESSORIES ON DEMAND

Fan guard

Clutch flywheels

Bell housings and flywheels

Transmission adapters

Key panels 12V or 24V

Wiring harnesses

Radiators

Pushing fan

Engine feet

Fuel tanks

Silencers

Dry type air cleaners (engine mounted or loose)

Air intake cyclonic pre-cleaners

High capacity oil sumps\*

Cab heating provision

Hydraulic pump adaptors

Vacuum pump adaptors

Electric fuel feeding pump

24V starter motor, glow plugs and alternator

\* Not on KDW502 model

# KDW

## 502



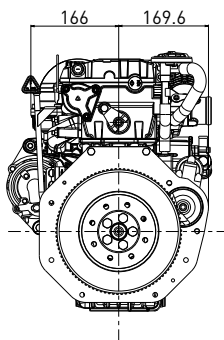
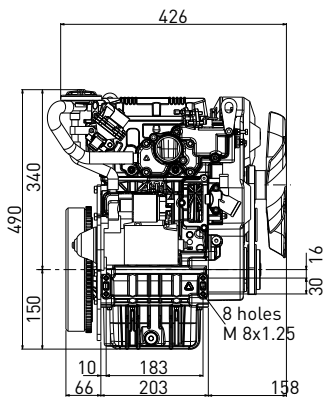
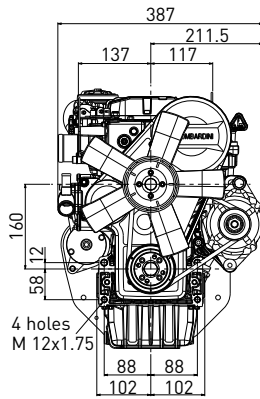
### Quick specifications

CYLINDERS	2
MAX POWER kW (hp)@rpm	8.6 (11.5) @ 3600
MAX TORQUE Nm@rpm	24.5 @ 2200
EMISSION COMPLIANCE	ECER 24

(Power & torque N curve - 80/1269/CE E-ISO 1585)

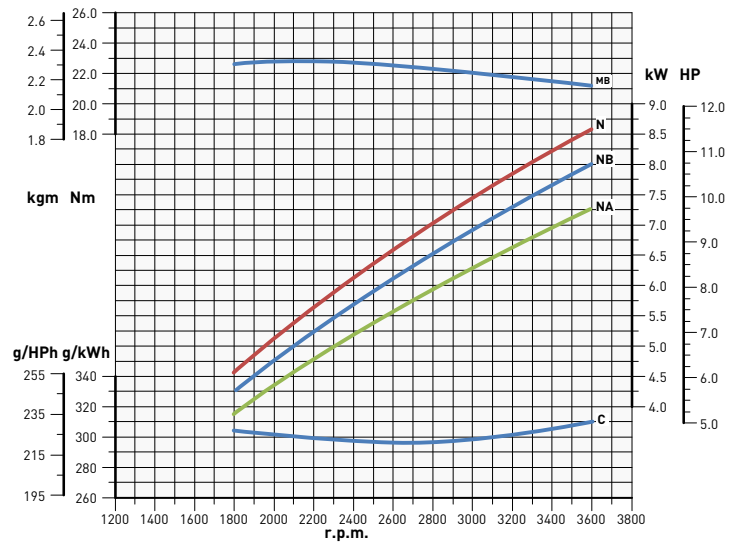
# DATA

Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO 14396)



N - Power curve - 80/1269/CE E-ISO 1585

NB - Power curve - ISO 3046/1 -IFN

NA - Power curve - ISO 3046/1 - ICXN

MB - Torque curve - (NB curve)

C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

# KDW

## 702



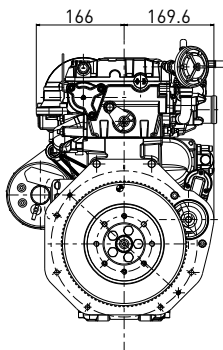
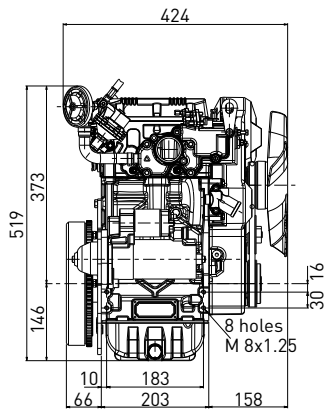
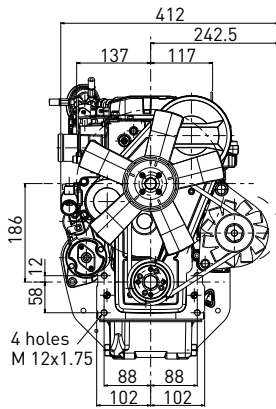
### Quick specifications

CYLINDERS	2	2	2
MAX POWER kW (hp)@rpm	11.5 (15.4) @ 3600	11.5 (15.4) @ 3600	11.6 (15.5) @ 3600
MAX TORQUE Nm@rpm	40.5 @ 2000	30.5 @ 2600	38 @ 2200
EMISSION COMPLIANCE	ECE R 24	US TIER 4 FINAL	EU STAGE V#

#Available starting from 2019

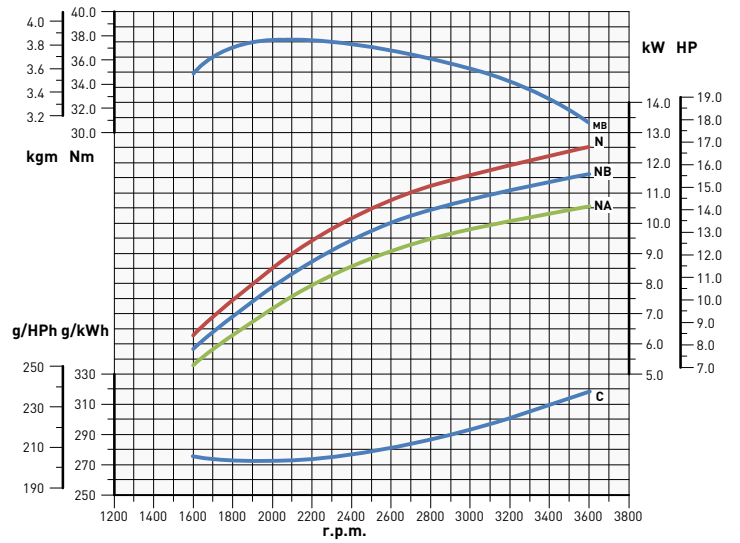
# DATA

## Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO 14396)



- N - Power curve - 80/1269/CE E-ISO 1585
- NB - Power curve - ISO 3046/1 - IFN
- NA - Power curve - ISO 3046/1 - ICXN
- MB - Torque curve - (NB curve)
- C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

## Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
10.5 @ 3000	38.5 @ 2200

# KDW

## 1003



### Quick specifications

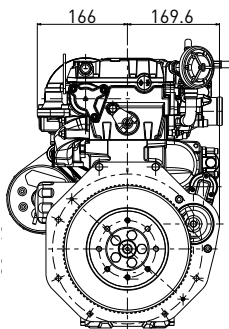
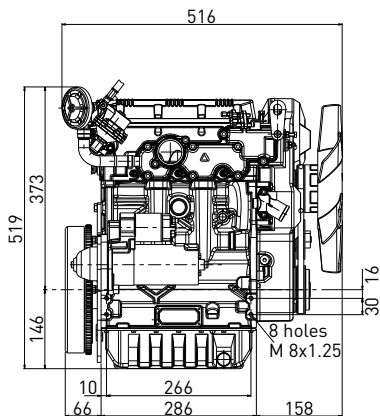
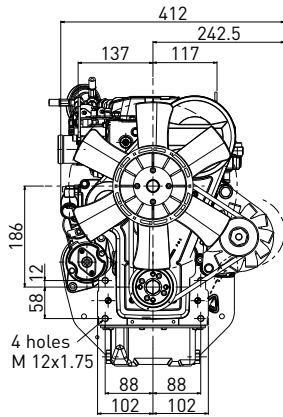
CYLINDERS	3	3	3
MAX POWER kW (hp)@rpm	18.6 (24.9) @ 3600	17.7 (23.7) @ 3600	18.8 (25.2) @ 3600
MAX TORQUE Nm@rpm	67 @ 2000	50 @ 2600	62 @ 2200
EMISSION COMPLIANCE	ECE R 24	US TIER 4 FINAL	EU STAGE V#

#Available starting from 2019



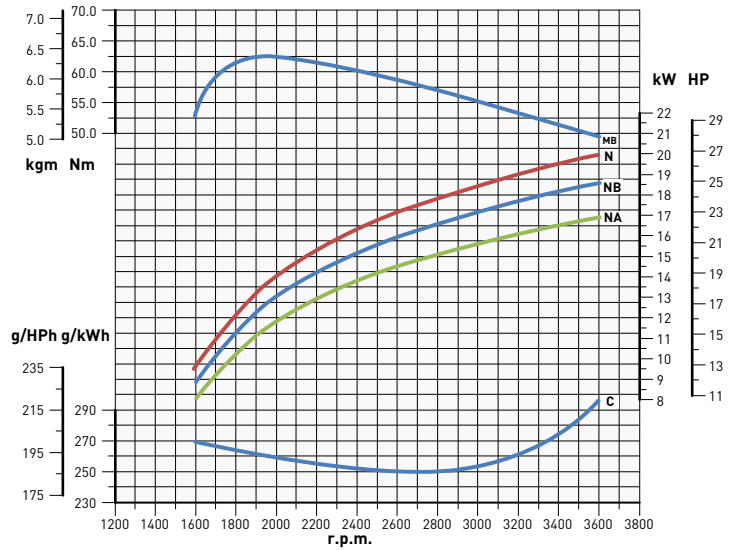
# DATA

## Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO 14396)



N - Power curve - 80/1269/CE E-ISO 1585

NB - Power curve - ISO 3046/1 - IFN

NA - Power curve - ISO 3046/1 - ICXN

MB - Torque curve - (NB curve)

C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

## Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
16.2 @ 3000	59 @ 2000
13.5 @ 2500	57.5 @ 1700

# KDW

## 1404



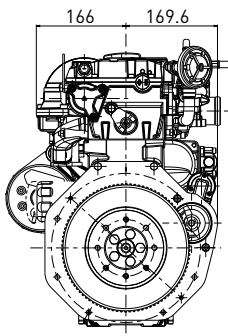
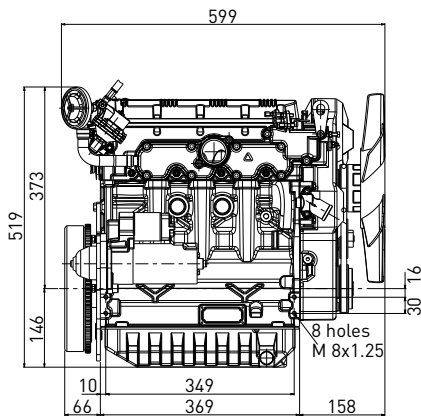
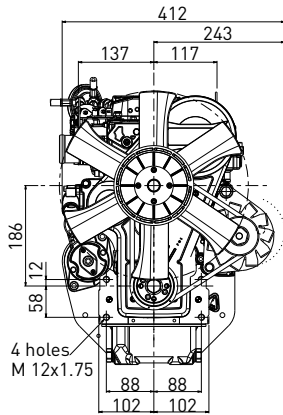
### Quick specifications

CYLINDERS	4	4	4
MAX POWER kW (hp)@rpm	24.5 (33.3) @ 3600	17.9 (24.3) @ 2700	18.4 (24.3) @ 3000
MAX TORQUE Nm@rpm	84 @ 2000	70 @ 1600	70 @ 1600
EMISSION COMPLIANCE	ECE R 24	US TIER 4 FINAL	EU STAGE V#

#Available starting from 2019

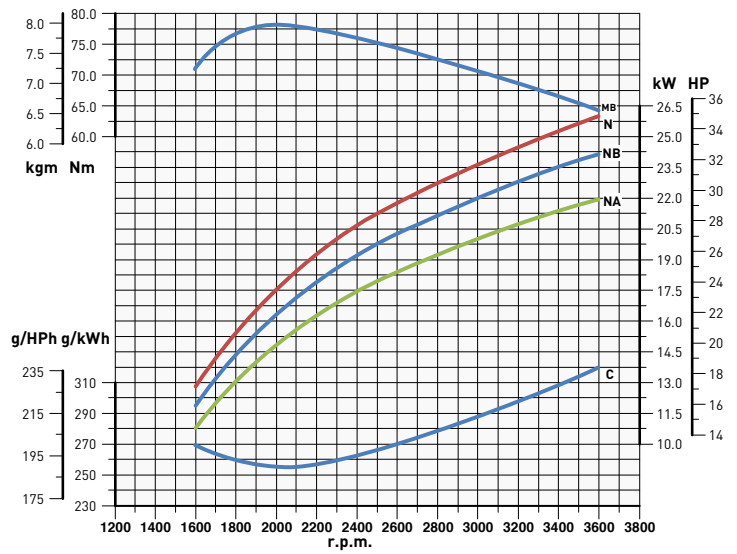
# DATA

## Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO14396)



N - Power curve - 80/1269/CE E-ISO 1585

NB - Power curve - ISO 3046/1 - IFN

NA - Power curve - ISO 3046/1 - ICXN

MB - Torque curve - (NB curve)

C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

## Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
21.8 @ 3000	77.5 @ 1900
18 @ 2500	76 @ 1600

# KDW

## 1603



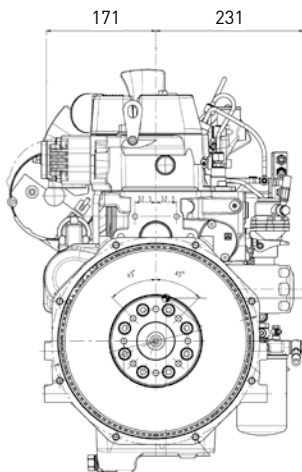
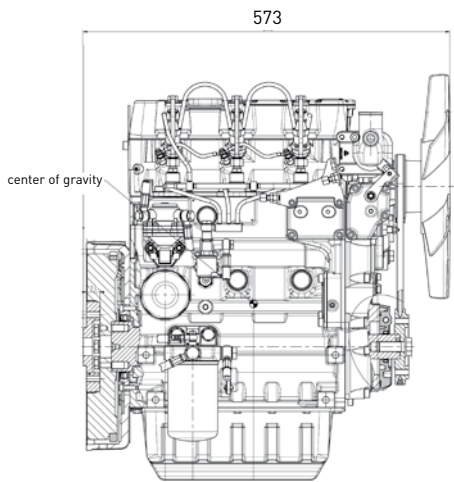
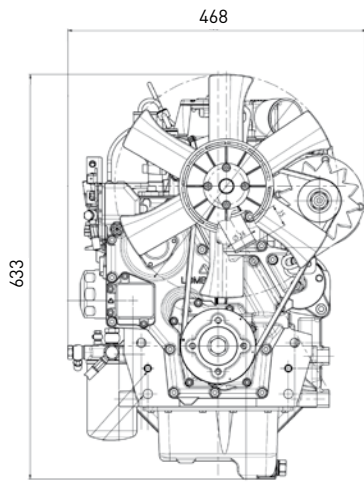
### Quick specifications

CYLINDERS	3	3	3
MAX POWER kW (hp)@rpm	27.6 (40.1) @ 3000	29 (38.9) @ 3000	18.4 (24.7) @ 3000
MAX TORQUE Nm@rpm	106.5 @ 1600	104 @ 1650	100 @ 1600
EMISSION COMPLIANCE	ECE R 24	US TIER 4 INTERIM	EU STAGE V#

#Available starting from 2019

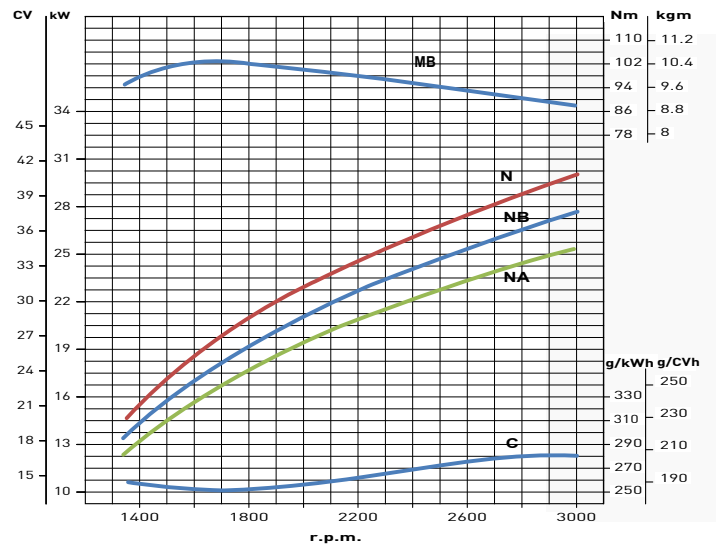
# DATA

## Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO14396)



- N - Power curve - 80/1269/CE E-ISO 1585
- NB - Power curve - ISO 3046/1 - IFN
- NA - Power curve - ISO 3046/1 - ICXN
- MB - Torque curve - (NB curve)
- C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

## Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
27.6 @ 2500	103 @ 1650

# KDW

## 2204

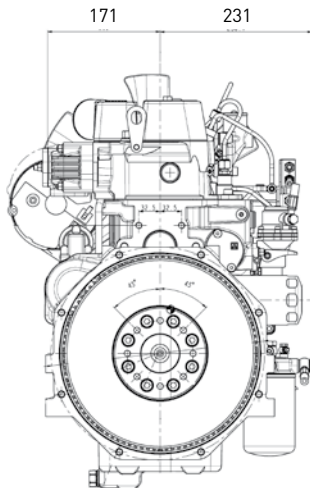
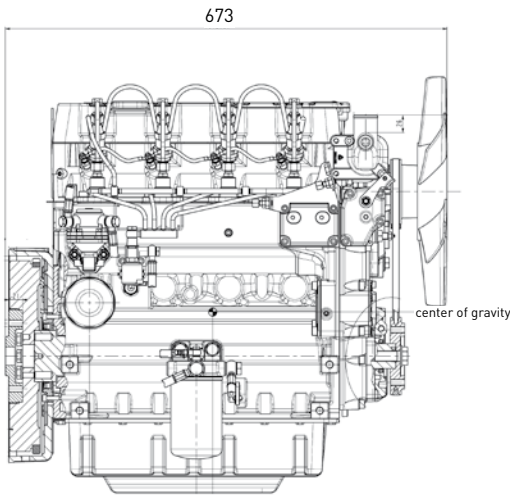
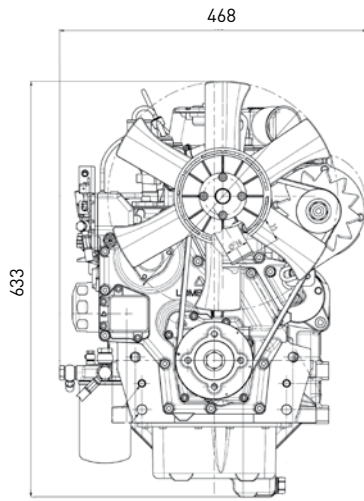


### Quick specifications

CYLINDERS	4	4
MAX POWER kW (hp)@rpm	34.5 (46.9) @ 3000	36.6 (49) @ 3000
MAX TORQUE Nm@rpm	144 @ 2000	132.5 @ 2100
EMISSION COMPLIANCE	ECE R 24	US TIER 4 INTERIM

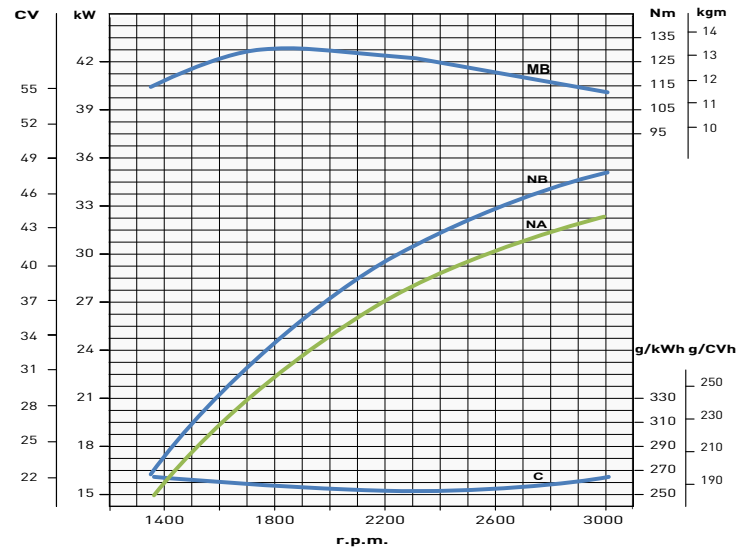
# DATA

Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO14396)



- N - Power curve - 80/1269/CE E-ISO 1585
- NB - Power curve - ISO 3046/1 - IFN
- NA - Power curve - ISO 3046/1 - ICXN
- MB - Torque curve - (NB curve)
- C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
35 @ 3000	130 @ 2100

# KDW 2204T



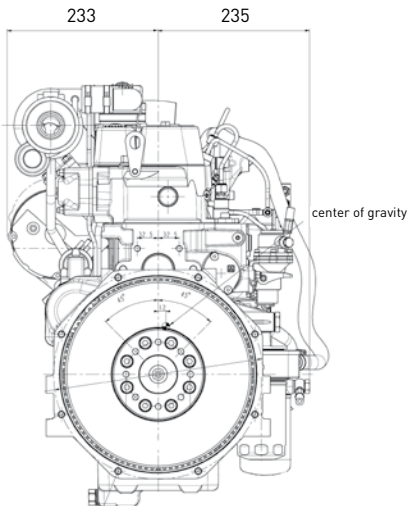
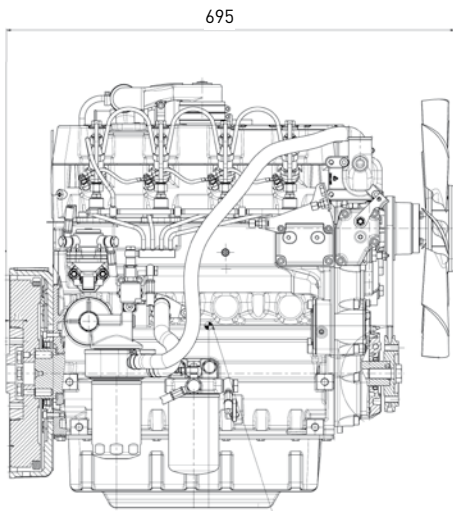
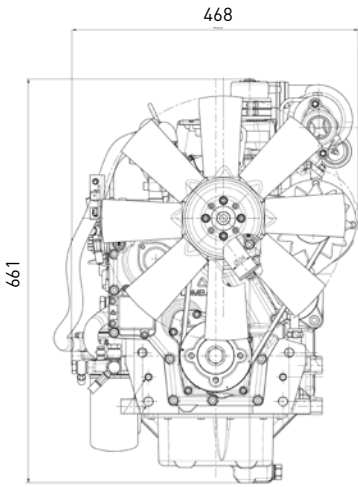
## Quick specifications

CYLINDERS	4	4
MAX POWER kW (hp)@rpm	44.3 (60.2) @ 3000	46 (61.6) @ 3000
MAX TORQUE Nm@rpm	190 @ 1800	178 @ 1700
EMISSION COMPLIANCE	ECE R 24	US TIER 4 INTERIM



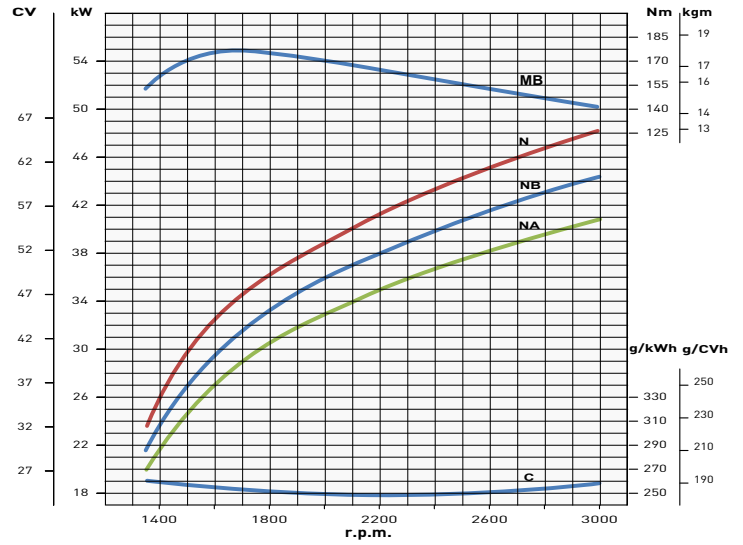
# DATA

## Dimensions (mm)



# PERFORMANCE CURVES

(IFN-ACCORDING TO ISO 3046 and ISO14396)



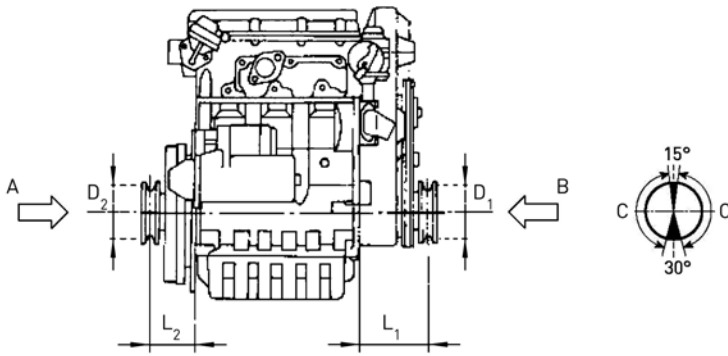
- N - Power curve - 80/1269/CE E-ISO 1585
- NB - Power curve - ISO 3046/1 - IFN
- NA - Power curve - ISO 3046/1 - ICXN
- MB - Torque curve - (NB curve)
- C - Specific fuel consumption - (NB curve)

Power ratings refer to engines equipped with air filter, standard muffler, after running-in period at ambient conditions of +25°C, relative humidity 30% and 1 bar. Power drops by 1% every 100 m altitude and by 2% every 5°C above +25°C.

## Other available settings

Max Power N* (kW)@rpm	Max Torque (Nm)@rpm
44 @ 3000	176 @ 1700

# APPLICATIONS SPECS



## KDW 502

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 116 [191 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 89 [191 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

C - Zone in which the radial loads can be applied

## KDW 702

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 143 [101 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 99 [101 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

C - Zone in which the radial loads can be applied

## KDW 1003

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 114 [101 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 79 [101 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

C - Zone in which the radial loads can be applied

## KDW 1404

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 110 [101 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 72 [101 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

C - Zone in which the radial loads can be applied

## KDW 1603

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 76 [118 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 49 [118 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

C - Zone in which the radial loads can be applied

## KDW 2204/ KDW 2204T

Minimum pulley diameters for belt drive

V BELT 
$$D_2 \text{ (mm)} \geq 73 [118 + L_2(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

COGGED BELT 
$$D_1 \text{ (mm)} \geq 46 [118 + L_1(\text{mm})] \frac{N \text{ (kW)}}{n \text{ (rpm)}}$$

Max intermittent axial load in both directions A-B= 300 kg

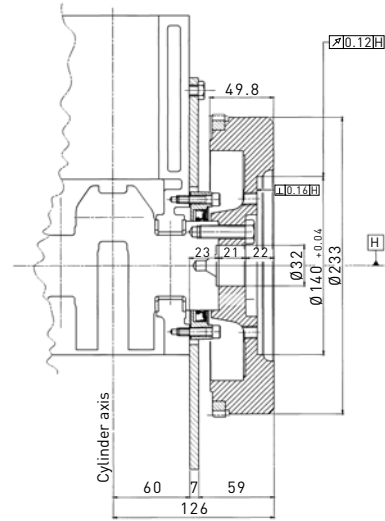
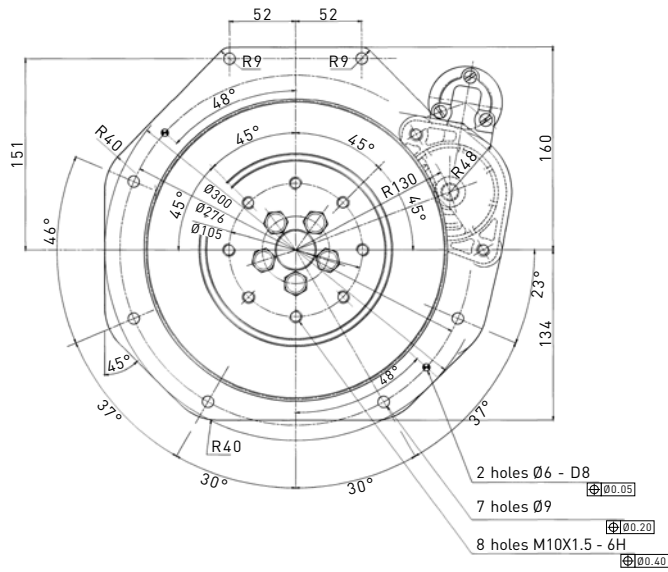
C - Zone in which the radial loads can be applied

# AVAILABLE FLANGES\*

Standard version - KDW 502 / KDW 702 / KDW 1003 / KDW 1404

Flange standard type KDW 502 / KDW 702 / KDW 1003 / KDW 1404

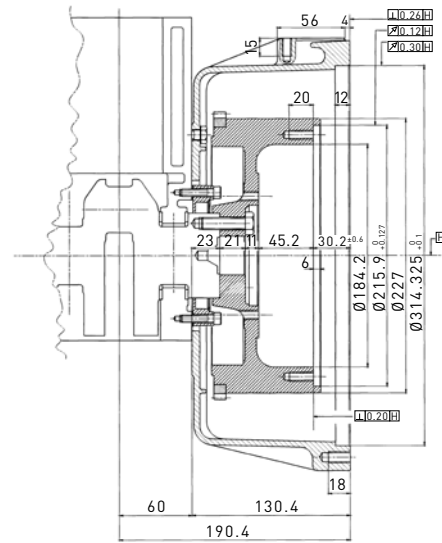
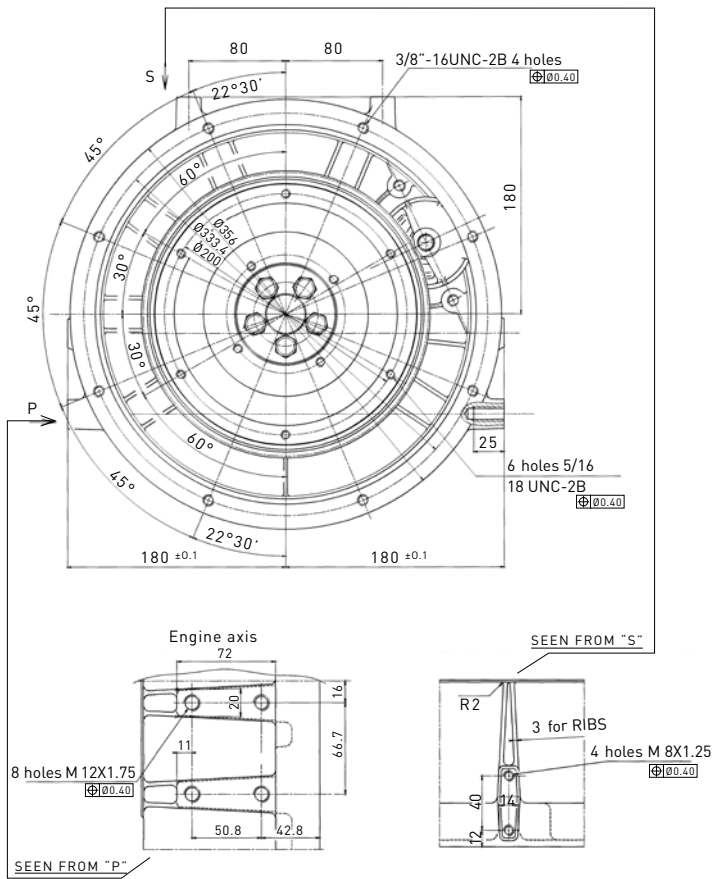
Standard version



Flange Genset KDW 502 / KDW 702 / KDW 1003 / KDW 1404

Standard version

Version Genset - KDW 502 / KDW 702 / KDW 1003 / KDW 1404



\* Other flanges available on request

# TECHNICAL SPECIFICATIONS

Model		KDW 502	KDW 702		
Engine specs	4 stroke diesel engine with cylinder in line	•	•		
	Liquid cooled	•	•		
	Indirect injection with injector pump on head	•	•		
	Overhead camshaft belt driven	•	•		
	Double PTO on crankshaft	•	•		
	3 <sup>rd</sup> PTO on the distribution	•	•		
	Counterclockwise rotation (1 <sup>st</sup> PTO)	•	•		
	Forced lubrication with vane pump on the crankshaft	•	•		
	Full flow external oil filter	•	•		
	Coolant pump in the engine block	•	•		
	Automatic extra fuel starting device	•	•		
	Centrifugal governor	•	•		
	Torque adapter	•	•		
	Aluminum cylinder head	•	•		
	Cast iron engine block with re-borable integral liners	-	-		
	Die-cast aluminum engine block with reinforced structure	•	-		
	2 valves per cylinder	•	•		
	Closed crankcase ventilation system	•	•		
Cab heater provision	•	-			
Technical features	Cylinder	2	2		
	Bore (mm)	72	75		
	Stroke (mm)	62	77.6		
	Engine displ (cm <sup>3</sup> )	505	686		
	Injection system	IDI	IDI		
	Compression ratio	22.8:1	22.8:1		
Performance	Emission compliance	ECE R 24	ECE R 24	US TIER 4 FINAL	EU STAGE v#
	Rating (kW/HP): N (80/1269/CEE)ISO 1585 NB ISO 3046 IFN NA ISO 3046 ICXN	8.6 /11.5 8.0 /10.7 7.3/ 9.8	(@ 3600) 12.5 /16.8 11.5 /15.4 10.7 /14.3	(@ 3600) - 11.5/15.4 -	(@ 3600) - 11.6/15.5 -
	Max torque (Nm@rpm)	24.5 @ 2200	40.5 @ 2000	30.5 @ 2600	38 @ 2200
	Min idling speed (rpm)	900	900		
Fuel compatibility	UNI EN 590-2010	•	•		
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 15	•	•		
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 500	•	•		
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 15	•	•		
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 500	•	•		
	ARCTIC EN 590/ASTM D 975-09 B	•	•		
	High Sulfur Fuel < 5000 ppm (< 0.5%)	•	•		
	High Sulfur Fuel > 5000 ppm (> 0.5%)	•	•		
	Military NATO Fuels F34 - F35 - F44 - F63 - F64 - F65 *	•	•		
	Military US Fuels JP5 - JP8 (AVTUR) *	•	•		
Jet Fuel -Jet A/ A1*	•	•			
Service features	Standard oil sump capacity (l)	1.4	1.6		
	Oil consumption (kg/h)	0.007	0.009		
	Oil change interval std/synthetic (hr)	150**	250**		
	Oil filter change interval std/synthetic (hr)	150**	250**		
Physical characteristics	H x L x W (mm)	490 x 426 x 387	519 x 424 x 412		
	Dry weight (kg)	54	66		
	Ambient operating temps (°C)	-15 +50***	-15 +50***		
	Gradeability-all round (intermittent -30 min) (deg)	25	25		
	Gradeability-all round (peak value -1 min) (deg)	35	35		
	Cap. of air required for correct combustion @3600 (l/min)	910	1240		
	Cap. of air required for correct cooling @3600 (m <sup>3</sup> /min)	65 (1:1.23)	65 (1:1.23)		
Lubrication	Oil type	SAE 5W 40 / API SJ/CF4	SAE 5W 40 / API SJ/CF4		
Auxiliary PTOs (3rd optional)	Max torque (Nm)	-	37.0 @ 1800 rpm		
	Drive ratio	0.5:1	0.5:1		

Model		KDW 1003			KDW 1404		
Engine specs	4 stroke diesel engine with cylinder in line	•			•		
	Liquid cooled	•			•		
	Indirect injection with injector pump on head	•			•		
	Overhead camshaft belt driven	•			•		
	Double PTO on crankshaft	•			•		
	3 <sup>rd</sup> PTO on the distribution	•			•		
	Counterclockwise rotation (1 <sup>st</sup> PTO)	•			•		
	Forced lubrication with vane pump on the crankshaft	•			•		
	Full flow external oil filter	•			•		
	Coolant pump in the engine block	•			•		
	Automatic extra fuel starting device	•			•		
	Centrifugal governor	•			•		
	Torque adapter	•			•		
	Aluminum cylinder head	•			•		
	Cast iron engine block with re-borable integral liners	•			•		
	Die-cast aluminum engine block with reinforced structure	-			-		
	2 valves per cylinder	•			•		
Closed crankcase ventilation system	•			•			
Cab heater provision	-			-			
Technical features	Cylinder	3			4		
	Bore (mm)	75			75		
	Stroke (mm)	77.6			77.6		
	Engine displ (cm <sup>3</sup> )	1028			1372		
	Injection system	IDI			IDI		
	Compression ratio	22.8:1			22.8:1		
Performance	Emission compliance	ECE R 24	US TIER 4 FINAL	EU STAGE V#	ECE R 120	US TIER 4 FINAL	EU STAGE V#
	Rating (kW/HP): N (80/1269/CEE)ISO 1585 NB ISO 3046 IFN NA ISO 3046 ICXN	(@ 3600) 20.0 /26.8 18.6 /24.9 17.0 /22.8	(@ 3600) - 17.7 /23.7 -	(@ 3600) - 18.8 /25.2 -	(@ 3600) 26.0 /35.2 24.5 /33.3 22.4 /30.5	(@ 2700) - 17.9 /24.3 -	(@ 3000) - 18.4 /24.3 -
	Max torque (Nm@rpm)	67.0 @ 2000	50.0 @ 2600	62.0 @ 2200	84.0 @ 2000	70.0 @ 1600	70.0 @ 1600
	Min idling speed (rpm)	900			900		
	UNI EN 590-2010	•			•		
Fuel compatibility	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 15	•			•		
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 500	•			•		
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 15	•			•		
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 500	•			•		
	ARCTIC EN 590/ASTM D 975-09 B	•			•		
	High Sulfur Fuel < 5000 ppm (< 0.5%)	•			•		
	High Sulfur Fuel > 5000 ppm (> 0.5%)	•			•		
	Military NATO Fuels F34 - F35 - F44 - F63 - F64 - F65 *	•			•		
	Military US Fuels JP5 - JP8 (AVTUR) *	•			•		
	Jet Fuel -Jet A/ A1*	•			•		
Service features	Standard oil sump capacity (l)	2.4			3.2		
	Oil consumption (kg/h)	0.0013			0.0017		
	Oil change interval std/synthetic (hr)	250**			250**		
	Oil filter change interval std/synthetic (hr)	250**			250**		
Physical characteristics	H x L x W (mm)	519 x 516 x 412			519 x 599 x 412		
	Dry weight (kg)	85			98		
	Ambient operating temps (°C)	-15 +50***			-15 +50***		
	Gradeability-all round (intermittent -30 min) (deg)	25			25		
	Gradeability-all round (peak value -1 min) (deg)	35			35		
	Cap. of air required for correct combustion @3600 (l/ min)	1850			2470		
	Cap. of air required for correct cooling @3600 (m <sup>3</sup> /min)	80 (1:1)			115 (1:1)		
Lubrication	Oil type	SAE 5W 40 API SERVICE CF			SAE 5W 40 API SERVICE CF		
Auxiliary PTOs (3rd optional)	Max torque (Nm)	37.0 @ 1800 rpm			37.0 @ 1800 rpm		
	Drive ratio	0.5:1			0.5:1		

# TECHNICAL SPECIFICATIONS

Model		KDW1603	KDW2204	KDW2204T				
Engine specs	4 stroke diesel engine with cylinder in line	•	•	•				
	Liquid cooled	•	•	•				
	Indirect injection	•	•	•				
	Gear driven in crankcase camshaft w.pushrod, rocker arm and hydraulic lash adjuster	•	•	•				
	Double PTO on crankshaft	•	•	•				
	Two PTOs on the distribution	•	•	•				
	Counterclockwise rotation (1 <sup>st</sup> PTO)	•	•	•				
	Forced lubrication with vane pump on the crankshaft	•	•	•				
	Full flow external spin-on oil filter	•	•	•				
	Automatic extra fuel starting device	•	•	•				
	Centrifugal governor	•	•	•				
	Torque adapter	•	•	•				
	Cast iron cylinder head	•	•	•				
	Cast iron engine block with re-borable integral liners	•	•	•				
	Closed crankcase ventilation system	•	•	•				
Cab heater provision	•	•	•					
Technical features	Cylinder	3	4	4				
	Bore (mm)	88	88	88				
	Stroke (mm)	90.4	90.4	90.4				
	Engine displ (cm <sup>3</sup> )	1649	2199	2199				
	Injection system	IDI	IDI	IDI				
	Compression ratio	22:1	22.5:1	22.8:1				
Performance	Emission compliance	ECE R 24	US TIER 4 Interim	EU STAGE V#	ECE R 24	US TIER 4 Interim	ECE R 24	US TIER 4 Interim
	Rating (kW/hp): N (80/1269/CEE)ISO 1585 NB ISO 3046 IFN NA ISO 3046 ICXN	(@3000) 29.5 /40.1 27.6 /37.5 25.4 /34.5	(@3000) - 29.0/ 38.9 -	(@3000) - 18.4/ 24.7 -	(@3000) 37.5 /51.0 34.5 /46.9 32.0 /44.0	(@3000) - 36.6 / 49 -	(@3000) 47.0 /63.0 44.3 /60.2 40.8 /55.5	(@3000) - 46 / 61.6 -
	Max torque (Nm@rpm)	106.5 @ 1600	104 @ 1650	100 @ 1600	144 @ 2000	132.5 @ 2100	190 @ 1800	178 @ 1700
	Min idling speed (rpm)		900		900		900	
Fuel compatibility	UNI EN 590-2010	•	•	•				
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 15	•	•	•				
	No 1 Diesel (US) - ASTM D 975-09 B - Grade 1-D S 500	•	•	•				
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 15	•	•	•				
	No 2 Diesel (US) - ASTM D 975-09 B - Grade 2-D S 500	•	•	•				
	ARCTIC EN 590/ASTM D 975-09 B	•	•	•				
	High Sulfur Fuel < 5000 ppm (< 0.5%)	•	•	•				
	High Sulfur Fuel > 5000 ppm (> 0.5%)	•	•	•				
	Military NATO Fuels F34 - F35 - F44 - F63 - F64 - F65 *	•	•	•				
	Military US Fuels JP5 - JP8 (AVTUR) *	•	•	•				
Jet Fuel -Jet A/ A1*	•	•	•					
Service features	Standard oil sump capacity (l) [w. With dynamic balancer]	4.4	6.4 [5.3]	6.4 [5.3]				
	Oil consumption (kg/h)	0.019	0.025	0.032				
	Oil change interval std/synthetic (hr)	200**	200**	200**				
	Oil filter change interval std/synthetic (hr)	200**	200**	200**				
Physical characteristics	H x L x W (mm)	633 x 573 x 468	633 x 673 x 468	661 x 695 x 468				
	Dry weight (kg)	156	192	197				
	Ambient operating temps (°C)	-15 +50***	-15 +50***	-15 +50***				
	Gradeability-all round (intermittent -30 min) (deg)	30	30	30				
	Gradeability-all round (peak value -1 min) (deg)	35	35	35				
	Cap. of air required for correct combustion @3000 (l/ min)	2475	3300	4200				
	Cap. of air required for correct cooling @3000 (m <sup>3</sup> / min)	96	128	180				
Lubrication	Oil type	SAE 5W 40 / API CF - SH	SAE 5W 40 API CF - SH	SAE 5W 40 API CF - SH				
Auxiliary PTOs (3rd optional)	Max torque (Nm)	39.2 @3000	39.2 @3000	39.2 @3000				
	Drive ratio	1:1	1:1	1:1				



**EUROPE**

Lombardini Srl  
Via Cav. del lavoro  
A. Lombardini n° 2  
42124 Reggio Emilia, ITALY  
T. +39-(0)522-389-1  
infodiesel@kohler.com

**DEUTSCHLAND**

Lombardini Motoren GmbH  
Fritz-Klatte-Str. 6, Bürogebäude 2  
65933 Frankfurt am Main,  
DEUTSCHLAND  
T. +49-(0)69-9508160  
de.infodiesel@kohler.com

**UK**

Lombardini U.K. Ltd  
1, Rochester Barn - Eynsham Road  
OX2 9NH  
Oxford, UK  
T. +44-(0)1865-863858  
uk.infodiesel@kohler.com

**ESPAÑA**

Lombardini ESPAÑA, S.L.  
P.I. Cova Solera 1-9  
08191 - Rubí (Barcelona)  
ESPAÑA  
T. +34-(0)9358-62111  
es.infodiesel@kohler.com

**FRANCE**

Lombardini France S.a.s.  
47 Allée de Riottier,  
69400 Limas, FRANCE  
T. +33-(0)474-626500  
fr.infodiesel@kohler.com

**ROAPAC**

Kohler Singapore Pte Ltd  
(Kohler Power Systems)  
7 Jurong Pier Road  
SINGAPORE 619159  
T. +65-63020701  
Sgsalesall@kohler.com

Lombardini s.r.l. is a company of Kohler Group and has manufacturing facilities in Italy, Slovakia and India and sales subsidiaries in France, Germany, UK, Spain and Singapore. Kohler reserves the right to make modifications without prior notice. For the latest version please visit our website:

**KOHLERENGINES.COM/EU**

**KOHLER**  
IN POWER. SINCE 1920.