



DIESEL ENGINE	No emission compliance	Stage IIIA / Tier 3	Tier 4 Final EPA	Stage V
Model :	PERKINS serie 1104	PERKINS serie 1104	KOHLER serie KDI 2504	KOHLER serie KDI 2504
Type :	Naturally aspirated	Turbo	Turbo Intercooler	Turbo Intercooler
Total displacement :	4,400cc - 4 in linea	4,400cc - 4 in line	2,482cc - 4 in line	2,482cc - 4 in line
Injection :	Mechanical control with direct injection	Mechanical control with direct injection	Electronic control with Common Rail	Electronic control with Common Rail
Aftertreatment sys. :	-	-	EGR + DOC	EGR + DOC + DPF
Cooling :	air water, dry air filter	air water, dry air filter	air water, dry air filter	air water, dry air filter
Maximum power :	64.5 kW (87 hp)	74 kW (101 hp)	55.4 kW (74.3 hp)	55.4 kW (74.3 Hp)
Adj. power. :	64 kW (2,400 rpm)	70 kW (2,200 rpm)	55.4 kW (2,300 rpm)	55.4 kW (2,300 rpm)
Maximum torque :	293 Nm (1,400 rpm)	392 Nm (1,400 rpm)	300 Nm (1,500 rpm)	300 Nm (1,500 rpm)
Alternator :	12V - 65 A	12V - 65 A	12V - 80 A	12V - 90 A

ELECTRIC SYSTEM

Battery: 12 V - 135 Ah (850 A)
Road light system, rear working lights.

4X4 FOUR-WHEEL DRIVE

Hydrostatic "automotive" transmission with variable displacement pump and variable displacement hydraulic motor with electro-hydraulic control, and reverse gear control on the steering wheel. Mechanical gearbox for "working speed" and "road transfer" speed, with mechanical control.

SPEED

4 forward gears	2 reverse gears
Ist 0 - 3.5 km/h	0 - 3.5 km/h
IInd 0 - 7.6 km/h	0 - 3.5 km/h
IIIrd 0 - 10.4 km/h	0 - 10.4 km/h
IVth 0 - 25.0 km/h	0 - 10.4 km/h

AXLES AND WHEELS

Front oscillating ($\pm 7^\circ$) and steering with planetary reduction gears on the wheel hubs.
Rear and steering with planetary reduction gears on the wheel hubs and flanged gearbox.
(A) Tyres: 12.5-18 16PR
(B) Tyres: wide (optional) 405/70-20 14PR

BRAKES

Internal oil-bath disc service and emergency brakes acting on the 4 wheels, activation with pump on independent dual circuit.
Negative type parking brake, with internal oil-bath discs on the front axle and electro-hydraulically controlled release.

STEERING

Assisted by means of load-sensing power steering on 4 steering wheels; steering selection device for: 2 steering wheels, 4 steering wheels - crab steering.

WATER SYSTEM

"Self-priming" volumetric water pump with quick-suction.
Max. capacity: 250 L/min.
Maximum head: 4 bar
Two connected tanks positioned opposite each other made of polyethylene with a total capacity of 570 L.
Water feeding to the drum controlled by means of electromagnetic flow meter and fed litre reading the cabin display.
Water pump activation from the driver's seat and from the ground panel. Suction selection from the ground with quick-coupling pipes.

MIXING AND UNLOADING

Double-cone drum with double-spiral mixing screws and convex bottom.
Geometrical drum volume: 3,160 L.
Drum rotation speed: 23 rpm.
Class S1 concrete produced as : 2.5 cu m
Counterframe mounted on "heavy-duty" ball fifth wheel, with 245° hydraulic rotation and automatic locking by means of negative brake.
Drum rotation by means of a piston pump with variable flow rate and an orbital hydraulic motor in closed circuit with infinitesimal electrical control positioned in the cabin and at the rear of the machine.
Drum raising up to the horizontal position by means of 2 double-acting jacks.
Unloading chute with hydraulic tilting by means of a double-acting jack and 180° rotation, independent from the mixing drum inclination. Removable chute, for direct unloading from hopper.
2 unloading chute extensions provided as standard equipment.

EQUIPMENT HYDRAULIC SYSTEM

Gear pump
Max. flow rate: 45 L/min.
Maximum pressure: 195 bar
5-element distributor servo-controlled with multi-function joystick.
Chute lever distributor.
Aluminium heat exchanger for hydraulic oil cooling.
Pressurised closed-circuit intake with oil filter replaceable from the outside.

LOADER

Loading arms with self-compensated kinematic mechanism, double-acting loader lifting and return cylinders, electro-hydraulically controlled hatch with standard Tip-Off function.
Volumetric capacity: 510 L
Number of loaderfuls per load: around 7/8

CABIN

Closed cabin with heating system, designed in accordance with ROPS & FOPS 1st Level standards .
Sliding side window
180° pivoting driving post. Anatomic seat with flexible suspension and height adjustment, seat belts.
LCD TV display with camera for rear visibility, optional/standard depending on engine type.

SERVICE REFILL CAPACITIES

Fuel tank in polyethylene, 90 L
Total hydraulic system capacity: 100 L
Engine oil: 8 kg

WEIGHTS

Operating weight: 5,700 kg
Max gross weight: 11,900 kg
load-carrying capacity: 6,200 kg