

INDUSTRIAL DIESEL ENGINE

Kubota 05 Series (3-Cylinder)

D1105-K



Rated Power

18.5 kW @ 3000 rpm



Photograph may show non-standard equipment.

Features and Benefits

Suppress black smoke

The D1105-K engine is capable of complying with the latest emission standards (output of below 19kW) around the world, including the most stringent of China's national smoke regulations, Category III. The amount of black smoke is reduced to an imperceptible level at start, acceleration, and a rapid increase in workload.

Low fuel consumption

Fuel efficiency improved by about 5% compared to conventional model.

Acquisition of engine operating data, improvement in drivability and serviceability

The D1105-K engine is capable of communicating via CAN, thus allowing engine speed and torque to be controlled using signals from vehicles. Due to superior torque characteristics, lower rotation due to a rapid increase in workload is suppressed, enhancing drivability and work efficiency. The extended oil pan can extend the oil service interval up to 500 hours* for improved serviceability.

*Varies depending on operating conditions.

Enhanced compatibility

The D1105-K engine uses the same external dimensions, locations of ports and an engine mount, and PTO as its current model, thus facilitating easy model upgrades. In addition, ECU can be mounted on the engine itself, making it easy to replace the conventional model.

CONTACT US

<https://global.engine.kubota.co.jp/en/contact/form.php>



Engine Specifications

Engine model		D1105-K	
Emission regulation		EPA/CARB Tier4 + EU Stage V + China Non-Road IV ready	
Type		Vertical, water cooled 4-cycle diesel engine	
Cylinders		3	
Bore and Stroke	mm (in)	78.0 × 78.4 (3.07 × 3.09)	
Displacement	L (cu.in)	1.123 (68.53)	
Aspiration		Naturally aspirated	
Aftertreatment		-	
Rated output / speed ^{*1}	kW (HP) / rpm	18.5 (24.8) / 3000	
Maximum torque / speed ^{*1}	Nm (lb-ft) / rpm	72.4 (53.4) / 2200	
Combustion and fuel system		TVCR	
Length x Width x Height ^{*2} (without aftertreatment unit)	mm (in)	481 × 380 × 595 (18.9 × 15.0 × 23.4)	481 × 396 × 595 ^{*3} (18.9 × 15.6 × 23.4)
Dry weight ^{*2}	kg (lb)	93 (205)	94 (207) ^{*3}

Specifications are subject to change without prior notice.

Dimensions and dry weight are according to Kubota's standard specification.
Dimensions and weight depend on completed specifications.

^{*1}: Gross intermittent SAE J1995

^{*2}: Exclude cooling fan

^{*3}: Dimensions and weight when ECU is mounted directly on engine.