

INDUSTRIAL DIESEL ENGINE

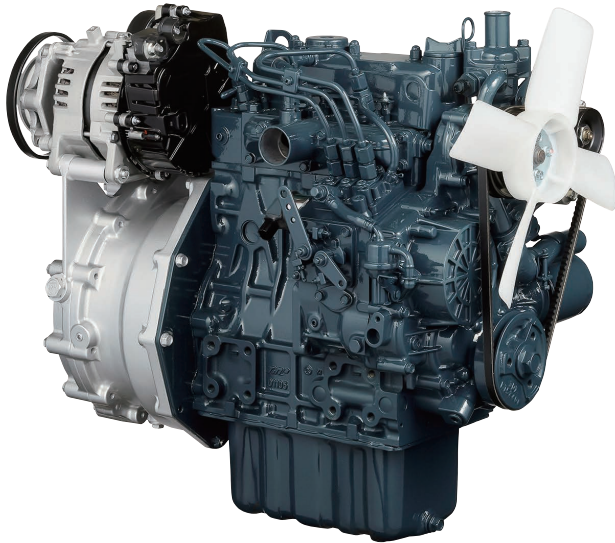
Kubota 05 Series (3-Cylinder)

D1105 P2 Hybrid



Rated Power

18.5 kW @ 3000 rpm



Photograph may show non-standard equipment.

Features and Benefits

Switching Drive Between Engine and Motor

The P2 hybrid system offers the ability to switch between engine drive and motor drive while in operation. Operators can switch between engine and motor drive depending on the application. For example, the engine can be used when moving between locations, but in areas where emissions or noise are a concern, it can be stopped and switched to the electric motor.

A Space Saving Hybrid Makes Design Flexibility

The adoption of the one-way clutch reduces the system's overall weight and size, and the gearbox containing this one-way clutch is provided together with the engine. The gearbox itself is approximately 20 cm in width, which saves space when compared to conventional combinations of engines and separately procured clutches, which in turn provides more freedom for application design.

Includes A Gearbox Containing A One-Way Clutch

Not only a motor generator but also a gearbox which incorporates a one-way clutch is supplied with the engine by Kubota. A hydraulic pump can be mounted to the gearbox to withdraw power.

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Engine Specifications

Engine	Engine model		D1105 P2 Hybrid
	Emission regulation		EPA/CARB Tier 4 (NRTC/NTE test mode) + EU Stage V
	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	71.5 (52.7) / 2200
	Combustion system		Indirect injection
Fuel system		In-line pump	
Motor Generator	Type		AC synchronous motor
	Rated output	kW	10
	Length x Width x Height ^{*2} (with motor generator and P2 hybrid transmission)	mm (in)	680.5 × 396 × 605 (26.7 × 15.6 × 23.8)
	Dry weight ^{*2} (with motor generator and P2 hybrid transmission)	kg (lb)	129 (284)
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

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