



INDUSTRIAL DIESEL ENGINE

**KUBOTA 03-M-SERIES (4-cylinder)**

**V2203-M-E3B**

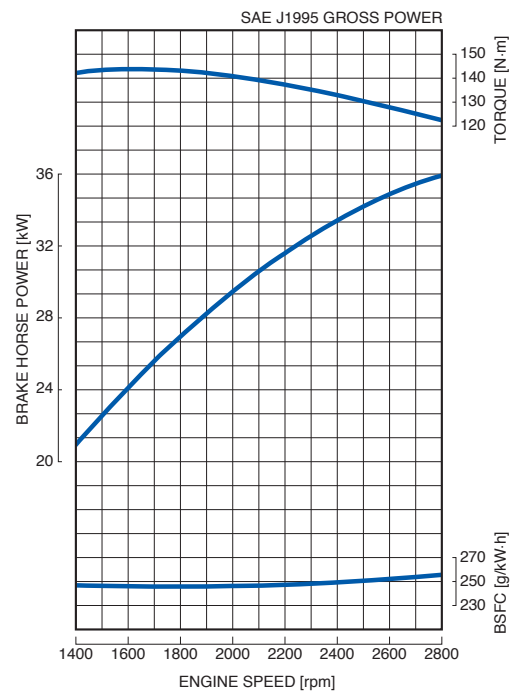


**RATED POWER**

**35.9 kW/2800 rpm**



**PERFORMANCE CURVE**



**FEATURES with BENEFITS**

**Emissions**

- The V2203-M engine complies with EPA Interim Tier 4 emissions regulations that are effective through the end of 2012. This engine also complies with EU Stage 3A requirements that are effective through 2012 and beyond in the European market.

**Durable Power**

- The Kubota 03-M-Series is well recognized for industrial applications. With numerous features such as a built-in solenoid, low fan position, and single side serviceability, this engine offers excellent performance characteristics and application flexibility.
- The cooling water passages between the cylinder bores, using Kubota's original casting technology as a countermeasure against heat load of high power density, provides both superior endurance and reliable engine characteristics.
- The V2203-M engine offers a seamless transition from Tier 2 to Interim Tier 4 by maintaining the same footprint and hard mounting points with only slight performance changes from the Tier 2 engine.

**Clean and Quiet Power**

- Kubota's original E-TVCS (Three Vortex Combustion System) has been improved. The airflow, combustion chamber and piston recess were optimized to provide a 50% lower particulate matter (PM) level, the same stringent level as above the 37kW-class (EPA Interim Tier 4).
- The half-float valve cover and MoS<sub>2</sub> coated pistons lower noise levels by 1.0-2.0 dBA over conventional diesel engines and provide reduced transmitted vibration from the valve area for better noise characteristics.

**Option**

- The Kubota 03-M-Series engines offer side power take-off(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.

## GENERAL SPECIFICATION

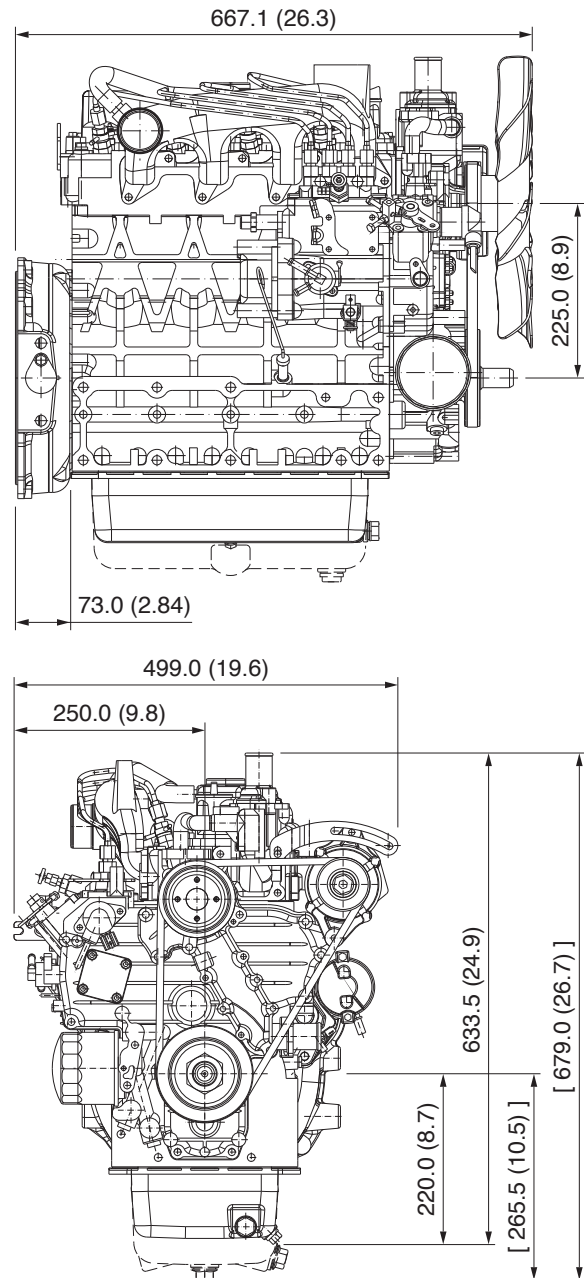
Model		<b>V2203-M-E3B</b>
Emission Regulation		Interim Tier 4 / Stage 3A
Type		Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders		4
Bore	mm (in)	87 (3.43)
Stroke	mm (in)	92.4 (3.64)
Displacement	L (cu.in)	2.197 (134.1)
Combustion System		Indirect Injection
Intake System		Naturally Aspirated
Maximum Speed	rpm	2800
Output: SAE J1995 Gross Power	kW	35.9
	hp	48.1
	ps	48.8
Direction of Rotation		Counterclockwise Viewed on Flywheel
Oil Pan Capacity	L (gal)	7.6 (2.01) [US] / 9.5 (2.51) [EU]
Starter Capacity	V-kW	12-1.4
Alternator Capacity	V-A	12-40
Length	mm (in)	667.1 (26.3)
Width	mm (in)	499.0 (19.6)
Height (1)	mm (in)	633.5 (24.9) [US] / 679.0 (26.7) [EU]
Height (2)	mm (in)	220.0 (8.7) [US] / 265.5 (10.5) [EU]
Dry Weight	kg (lb)	180.0 (396.9)

\*Specification is subject to change without notice.

\*Dry weight is according to Kubota's standard specification. When specification varies, the weight will vary accordingly.

\*SAE J1995 Gross Power: 1-hour rating based on engine without cooling fan, air cleaner and muffler, with alternator.

## DIMENSIONS



\* [ ] EU spec

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