

INDUSTRIAL DIESEL ENGINE

**KUBOTA 03-M SERIES (3-cylinder)**

# D1803-M-DI-E3B

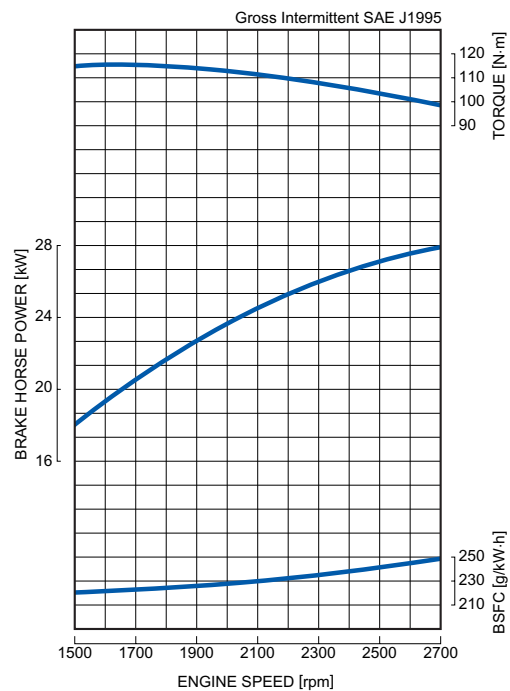


## RATED POWER

**27.9kW@2700rpm**



## PERFORMANCE CURVE



## FEATURES and BENEFITS

### Emissions

- The D1803-MDI engine complies with EPA Interim Tier 4 emissions regulations that are effective through the end of 2012. This engine also complies with EU Stage IIIA 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 D1803-M-DI 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

- Fuel injection pressure was increased to achieve a 50% lower particulate matter (PM) level, the same stringent level as above the 37kW class (EPA Interim Tier 4 Option1).
- 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.
- An Indirect Injection engine is also available.

## GENERAL SPECIFICATION

|                               |           |                                       |
|-------------------------------|-----------|---------------------------------------|
| Model                         |           | <b>D1803-M-DI-E3B</b>                 |
| Emission Regulation           |           | Interim Tier 4 / Stage III A          |
| Type                          |           | Vertical 4-cycle Liquid Cooled Diesel |
| Number of Cylinders           |           | 3                                     |
| Bore                          | mm (in)   | 87 (3.43)                             |
| Stroke                        | mm (in)   | 102.4 (4.03)                          |
| Displacement                  | L (cu.in) | 1.826 (111.4)                         |
| Combustion System             |           | DI                                    |
| Intake System                 |           | Naturally Aspirated                   |
| Maximum Speed                 | rpm       | 2700                                  |
| Output:<br>Gross Intermittent | kW        | 27.9                                  |
|                               | hp        | 37.4                                  |
|                               | ps        | 37.9                                  |
| Direction of Rotation         |           | Counterclockwise Viewed on Flywheel   |
| Oil Pan Capacity              | L (gal)   | 7.0 (1.85)                            |
| Starter Capacity              | V-kW      | 12-1.4                                |
| Alternator Capacity           | V-A       | 12-40                                 |
| Length                        | mm (in)   | 575.9 (22.7)                          |
| Width                         | mm (in)   | 499.0 (19.6)                          |
| Height (1)                    | mm (in)   | 684.0 (26.9)                          |
| Height (2)                    | mm (in)   | 265.5 (10.5)                          |
| Dry Weight                    | kg (lb)   | 151.0 (332.9)                         |

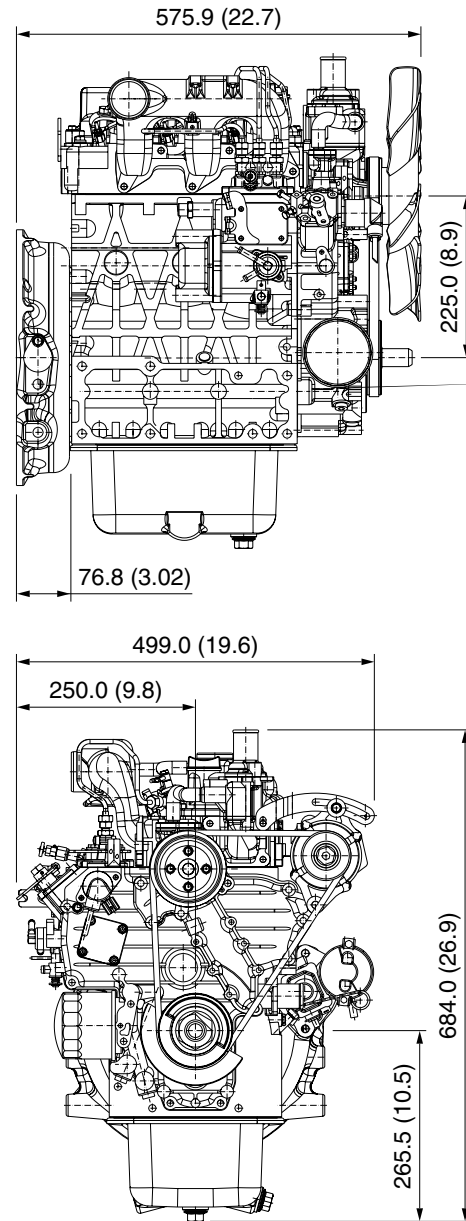
\*Specification is subject to change without notice.

\*Output: Gross Intermittent SAE J1995

\*Dry weight is according to Kubota's standard specification.

When specification varies, the weight will vary accordingly.

## DIMENSIONS



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