

KUBOTA 03-M SERIES (3-cylinder)

D1503-M-E3B





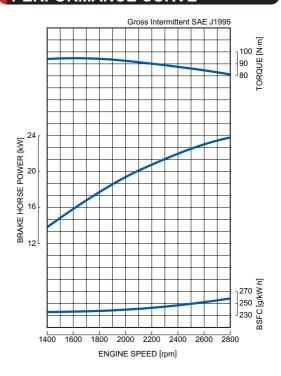
RATED POWER

23.8kW@2800rpm



Photograph may show non-standard equipment

PERFORMANCE CURVE



FEATURES and BENEFITS

Emissions

•The D1503-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 III A 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 D1503-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 Option 1).
- ●The half-float valve cover and MoS₂ 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.

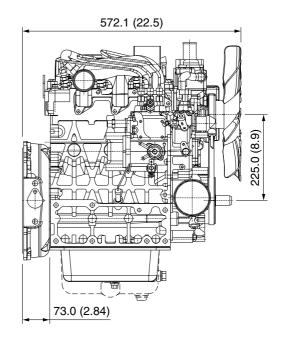
Option

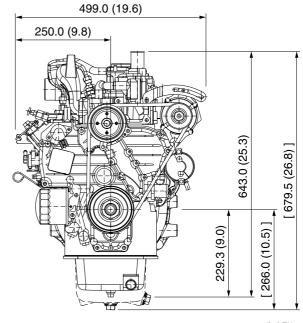
•The Kubota 03-M Series engines offer side power take-off(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.

Model		D1503-M-E3B
Emission Regulation		Interim Tier 4 / Stage I II A
Туре		Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders		3
Bore mm (in)		83 (3.27)
Stroke	mm (in)	92.4 (3.64)
Displacement	L (cu.in)	1.499 (91.47)
Combustion System		IDI
Intake System		Naturally Aspirated
Maximum Speed	rpm	2800
Output: Gross Intermittent	kW	23.8
	hp	31.9
	ps	32.4
Direction of Rotation		Counterclockwise Viewed on Flywheel
Oil Pan Capacity	L (gal)	5.6 (1.48) [US] / 7.0 (1.85) [EU]
Starter Capacity	V-kW	12-1.4
Alternator Capacity	V-A	12-40
Length	mm (in)	572.1 (22.5)
Width	mm (in)	499.0 (19.6)
Height (1)	mm (in)	643.0 (25.3) [US] / 679.5 (26.8) [EU]
Height (2)	mm (in)	229.3 (9.0) [US] / 266.0 (10.5) [EU]
Dry Weight	kg (lb)	148.0 (326.3)

^{*}Specification is subject to change without notice.

DIMENSIONS

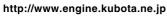




*[] EU spec



KUBOTA Corporation





^{*}Output: Gross Intermittent SAE J1995

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



KUBOTA 03-M SERIES (3-cylinder)

D1703-M-E3B





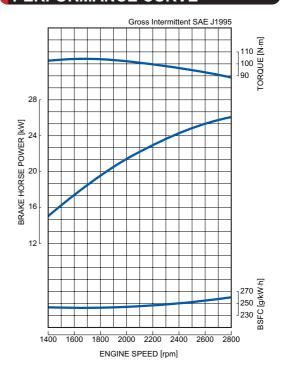
RATED POWER

26.1kW@2800rpm



Photograph may show non-standard equipment

PERFORMANCE CURVE



FEATURES and BENEFITS

Emissions

•The D1703-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 III A 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 D1703-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 Option 1).
- ●The half-float valve cover and MoS₂ 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.

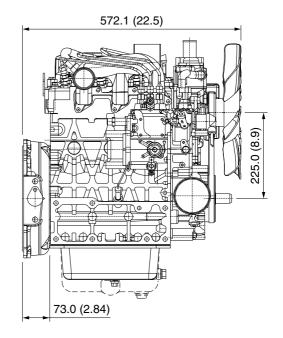
Option

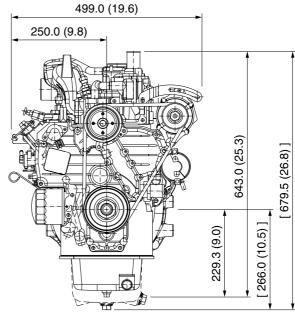
 The Kubota 03-M Series engines offer side power take-off(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.

Model		D1703-M-E3B
Emission Regulation		Interim Tier 4 / Stage I II A
Туре		Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders		3
Bore	mm (in)	87 (3.43)
Stroke	mm (in)	92.4 (3.64)
Displacement	L (cu.in)	1.647 (100.5)
Combustion System		IDI
Intake System		Naturally Aspirated
Maximum Speed	rpm	2800
	kW	26.1
Output: Gross Intermittent	hp	35.0
	ps	35.5
Direction of Rotation		Counterclockwise Viewed on Flywheel
Oil Pan Capacity	L (gal)	5.6 (1.48) [US] / 7.0 (1.85) [EU]
Starter Capacity	V-kW	12-1.4
Alternator Capacity	V-A	12-40
Length	mm (in)	572.1 (22.5)
Width	mm (in)	499.0 (19.6)
Height (1)	mm (in)	643.0 (25.3) [US] / 679.5 (26.8) [EU]
Height (2)	mm (in)	229.3 (9.0) [US] / 266.0 (10.5) [EU]
Dry Weight	kg (lb)	148.0 (326.3)

^{*}Specification is subject to change without notice.
*Output: Gross Intermittent SAE J1995

DIMENSIONS

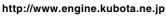




*[] EU spec



KUBOTA Corporation





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



KUBOTA 03-M SERIES (3-cylinder)

D1803-M-E3B





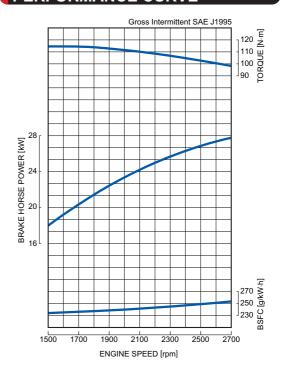
RATED POWER

27.9kW@2700rpm



Photograph may show non-standard equipment.

PERFORMANCE CURVE



FEATURES and BENEFITS

Emissions

•The D1803-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 III A 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 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 Option 1).
- ●The half-float valve cover and MoS₂ 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.

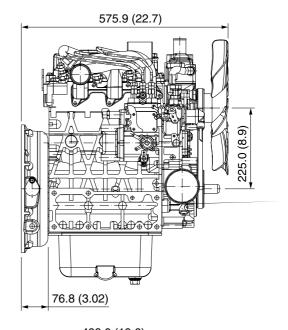
Option

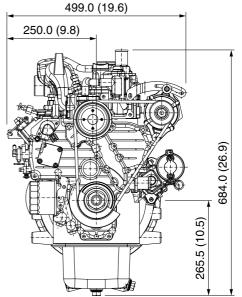
- •The Kubota 03-M Series engines offer side power take-off(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.
- A Direct Injection engine is also available.

Model		D1803-M-E3B
Emission Regulation		Interim Tier 4 / Stage I II A
Туре		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		IDI
Intake System		Naturally Aspirated
Maximum Speed	rpm	2700
	kW	27.9
Output: Gross Intermittent	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	12-2.0
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.

DIMENSIONS







Your Driving Force KUBOTA ENGINE

KUBOTA Corporation

^{*}Output: Gross Intermittent SAE J1995

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



KUBOTA 03-M SERIES (4-cylinder)

V2203-M-E3B





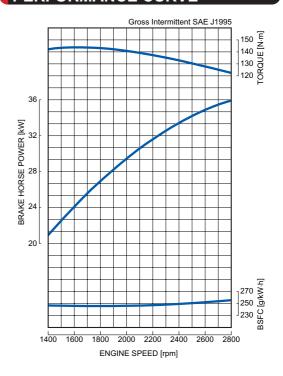
RATED POWER

35.9kW@2800rpm



Photograph may show non-standard equipment.

PERFORMANCE CURVE



FEATURES and 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 III A 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 Option 1).
- ●The half-float valve cover and MoS₂ 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.

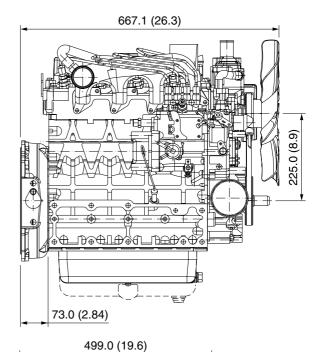
Option

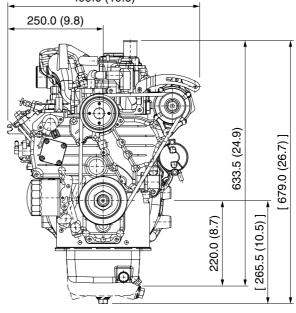
 The Kubota 03-M Series engines offer side power take-off(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.

Model		V2203-M-E3B
Emission Regulation		Interim Tier 4 / Stage I II A
Туре		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		IDI
Intake System		Naturally Aspirated
Maximum Speed	rpm	2800
Output: Gross Intermittent	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.

DIMENSIONS

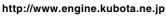




*[] EU spec



KUBOTA Corporation





^{*}Output: Gross Intermittent SAE J1995

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



KUBOTA 03-M SERIES (4-cylinder)

V2403-M-E3B





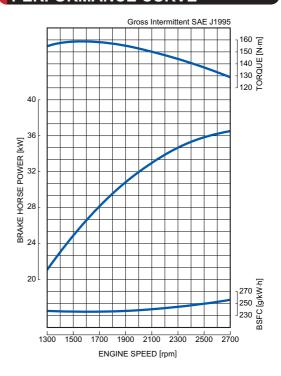
RATED POWER

36.5kW@2700rpm



Photograph may show non-standard equipment.

PERFORMANCE CURVE



FEATURES and BENEFITS

Emissions

•The V2403-M naturally aspirated engine complies with EPA Interim Tier 4 emissions regulations that are effective through the end of 2012. This engine also complies with EU Stage
■ A 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 V2403-M NA 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 Option 1).
- •The half-float valve cover and MoS₂ 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.

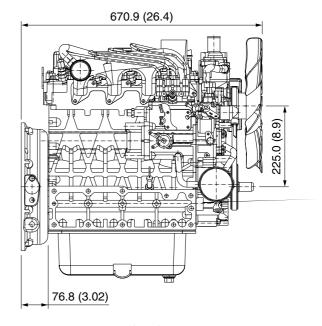
Option

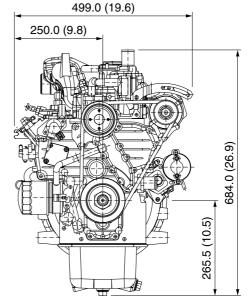
- •The Kubota 03-M Series engines offer side power takeoff(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.
- •A Direct Injection engine is also available.

Model		V2403-M-E3B
Emission Regulation		Interim Tier 4 / Stage II A
Туре		Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders		4
Bore	mm (in)	87 (3.43)
Stroke	mm (in)	102.4 (4.03)
Displacement	L (cu.in)	2.434 (148.5)
Combustion System		IDI
Intake System		Naturally Aspirated
Maximum Speed	rpm	2700
	kW	36.5
Output: Gross Intermittent	hp	48.9
	ps	49.6
Direction of Rotation		Counterclockwise Viewed on Flywheel
Oil Pan Capacity	L (gal)	9.5 (2.51)
Starter Capacity	V-kW	12-2.0
Alternator Capacity	V-A	12-40
Length	mm (in)	670.9 (26.4)
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)	184.0 (405.7)

^{*}Specification is subject to change without notice. *Output: Gross Intermittent SAE J1995

DIMENSIONS







Your Driving Force KUBOTA ENGINE

KUBOTA Corporation

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



KUBOTA 03-M SERIES (4-cylinder)

V2403-M-T-E3B





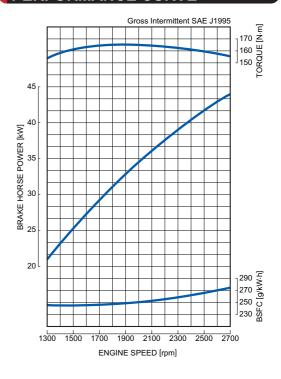
RATED POWER

44.0kW@2700rpm



Photographs may show non-standard equipment.

PERFORMANCE CURVE



FEATURES and BENEFITS

Emissions

- •The V2403-M Turbocharged engine complies with EPA Interim Tier 4 (Option1) emissions regulations, which are the most stringent in this class. This engine also complies with EU Stage III A requirements. It offers the benefit of one year longer validity than Tier 3. Therefore, this engine is good through the end of 2012 in both the North American and European markets, which would save engineering resources for the future emission regulations.
- Utilizing the low NOx characteristics of IDI engines, the V2403-M-T engine complies with the latest emissions regulations without any devices.

Durable Power

- The Kubota V2403-M-T engine is a new high power density engine that delivers the highest output within the Kubota 03-M Series
- •By expanding the bore and stroke, Kubota increased engine displacement. The cooling water passages between the cylinder bores, using Kubota's original casting technology as a countermeasure against high heat load provides both superior endurance and reliable engine characteristics.
- 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.

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 25% lower particulate matter (PM) level, resulting in a better condition compared to engines that only meet EPA Tier 3 regulations in this class.
- •The half-float valve cover and MoS2 coated pistons, which reduce noise levels and provide reduced transmitted vibration from the valve area for better noise characteristics are also adopted.

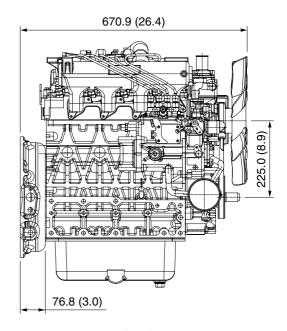
Option

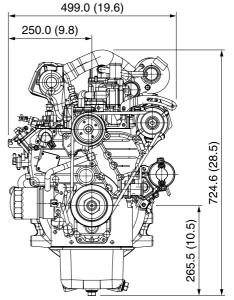
•The Kubota 03-M Series engines offer side power takeoff(PTO), in response to the trend of increasing hydraulic control devices in industrial machines. It is possible to install a hydraulic pump at two side PTO locations.

Model		V2403-M-T-E3B
Emission Regulation		Interim Tier 4 / Stage II A
Туре		Vertical 4-cycle Liquid Cooled Diesel
Number of Cylinders		4
Bore	mm (in)	87 (3.43)
Stroke	mm (in)	102.4 (4.03)
Displacement	L (cu.in)	2.434 (148.5)
Combustion System		IDI
Intake System		Turbocharged
Maximum Speed	rpm	2700
Output: Gross Intermittent	kW	44.0
	hp	59.0
	ps	59.8
Direction of Rotation		Counterclockwise Viewed on Flywheel
Oil Pan Capacity	L (gal)	9.5 (2.51)
Starter Capacity	V-kW	12-2.0
Alternator Capacity	V-A	12-40
Length	mm (in)	670.9 (26.4)
Width	mm (in)	499.0 (19.6)
Height (1)	mm (in)	724.6 (28.5)
Height (2)	mm (in)	265.5 (10.5)
Dry Weight	kg (lb)	188.0 (414.5)

*Specification is subject to change without notice. *Output: Gross Intermittent SAE J1995

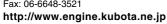
DIMENSIONS







KUBOTA Corporation



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