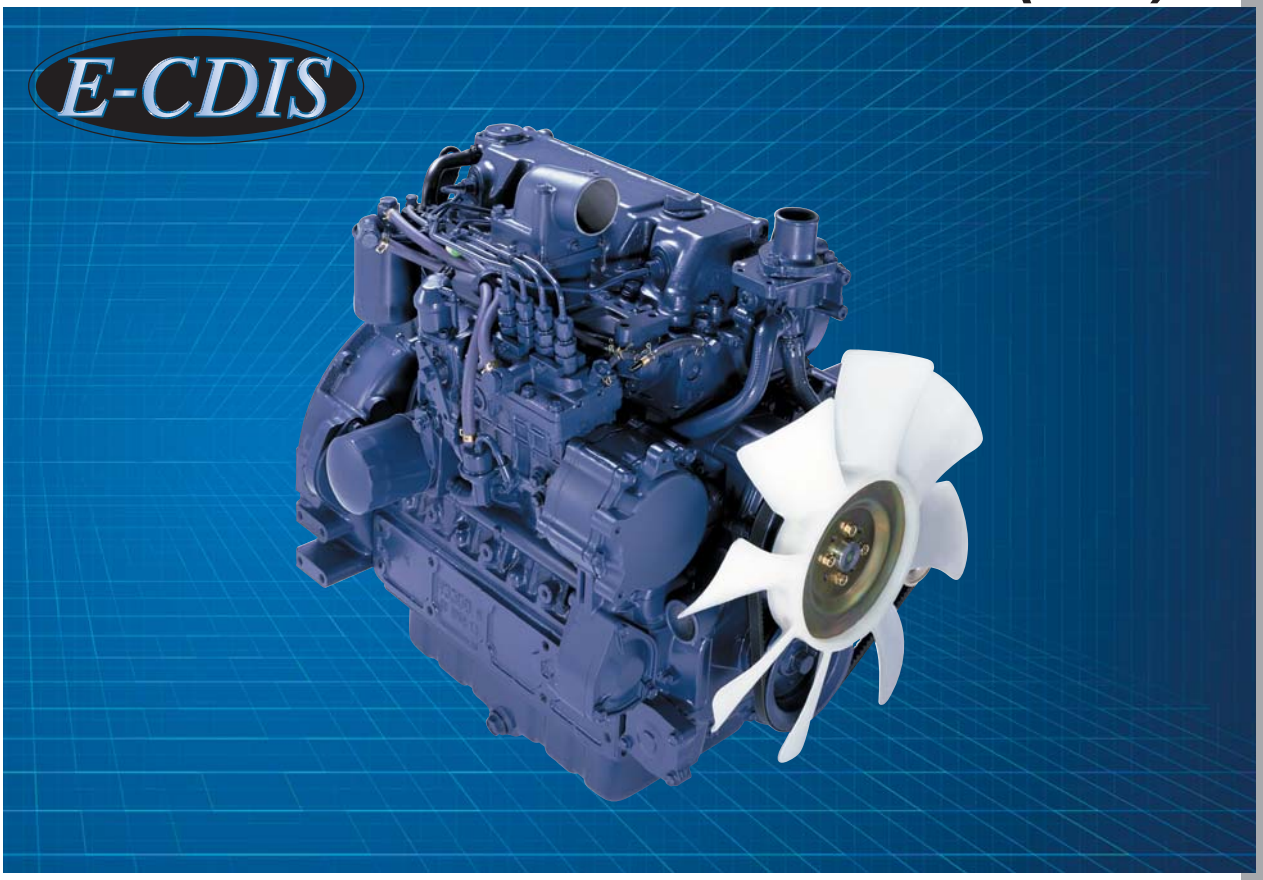
Kubota

KUBOTA DIESEL ENGINE V3 SERIES (DI)



Liquid-Cooled Diesel Engines featuring 4-Valve E-CDIS

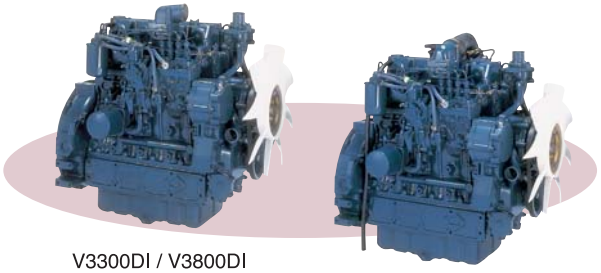
Displacement: 3,318cc/3,769cc

Maximum Output: 53.0 to 70.6 KW

V3 SERIES

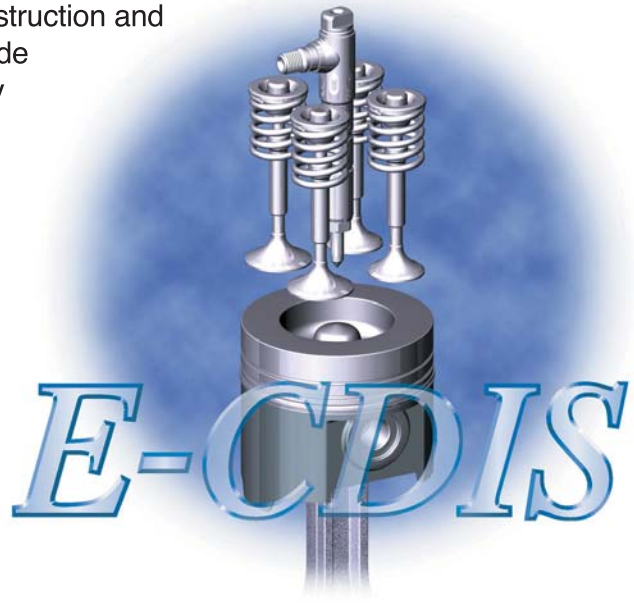
Four New DI Models Join the V3 Series

Kubota presents the world's first E-CDIS (Center Direct Injection System) type combustion system diesel engine series for construction and agricultural uses. This advanced 4-valve system, made exclusively for the V3 DI series, available as normally aspirated or turbo-charged, achieved higher output power, higher torque rise and cleaner emission all at the same time. If you are in the market for a direct-injection type engine in the 3.3 or the 3.8 liter class, look no further. Kubota has the answer.



V3300DI / V3800DI

V3300DI-T / V3800DI-T



An Original E-CDIS

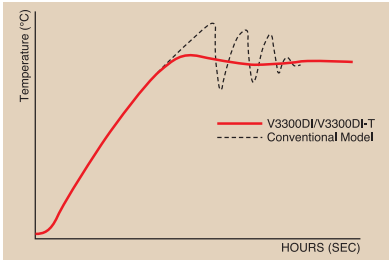
Kubota's new DI version of the V3 series incorporates a new four-valve-per-cylinder head with a new injection system, the E-CDIS. This system, with an injectorlocated in the center of each cylinder, drastically improved fuelefficiency.

High Power Density

The V3 series share the same engine dimensions, yet the V3800 is 14 % greater in displacement, and 10 % greater in output and torque rise than the V3300.

Superb Noise and Vibration Control

The half float structured head cover successfully reduces the radiating noise from the upper part of the engine. Moreover, the MoS2 coated piston and the three step open thermostat help reduce piston slap by optimizing piston/ cylinder wall clearance as the engine coolant comes up to temperature. A built-in twin balancer is available as a factory option for reducing vibration even further.

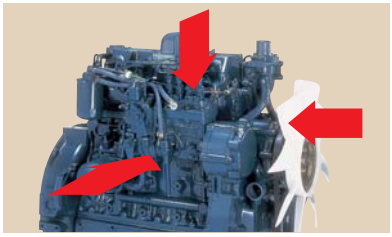


High Torque Rise and Environmental Friendly.

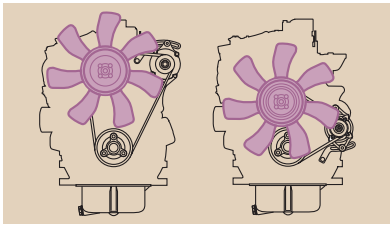
High Torque Rise and Environmental Friendly.The DI version retains Kubota's integral governor and peak torque adjuster. This system promotes higher torque rise, while maintaining targeted emission levels. With our eyes set on even stricter future emission regulations, the technology used in the V3 series enable them to clear the EPA Tier III standards.

Flexibility for industrial uses

- Side mounted PTO can deliver as much as 66% of total N.A.'s engine power.



- Maintenance position can be selected from air-intake, front, or the top.



- Fan position is selectable (Low or High).
- Structural type engine block (e.g. for agricultural tractor) is available.
- Various other options, including higher output starter and Turbo direction, are also available.

SPECIFICATIONS

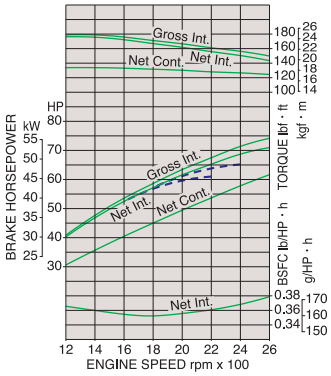
Model				V3300DI	V3300DI-T	V3800DI	V3800DI-T
Type				Vertical, 4-cycle liquid cooled Diesel			
Number of cylinders				4			
Bore x Stroke			mm (in.)	98 x 110 (3.86 x 4.33)		100 x 120 (3.94 x 4.72)	
Total Displacement			L (cu in.)	3.318 (202.53)		3.769 (230.00)	
Combustion system, Intake system				DI (E-CDIS*), Natural aspirated	DI (E-CDIS*), Turbo charged	DI (E-CDIS*), Natural aspirated	DI (E-CDIS*), Turbo charged
Output	SAE Gross Intermit		kW (HP)/rpm	54.9 (73.6)/2600	66.9 (89.7)/2600	60.8 (81.5)/2600	72.8 (97.6)/2600
	SAE Net Intermit.		kW (HP)/rpm	53.0 (71.0)/2600	64.7 (86.7)/2600	58.8 (78.8)/2600	70.6 (94.6)/2600
	SAE Net Cont.		kW (HP)/rpm	46.0 (61.7)/2600	56.2 (75.3)/2600	51.1 (68.5)/2600	61.3 (82.2)/2600
	ISO 3046 Gross		kW (HP)/rpm	54.9 (73.6)/2600	66.9 (89.7)/2600	60.8 (81.5)/2600	72.8 (97.6)/2600
	ISO 3046 Overload		kW (HP)/rpm	53.0 (71.0)/2600	64.7 (86.7)/2600	58.8 (78.8)/2600	70.6 (94.6)/2600
	ISO 3046 Cont.		kW (HP)/rpm	46.0 (61.7)/2600	56.2 (75.3)/2600	51.1 (68.5)/2600	61.3 (82.2)/2600
Direction of Rotation				Counterclockwise (viewed from flywheel side)			
Governing				Centrifugal flyweight high speed governor			
Fuel				Diesel fuel No. 2-D (ASTM D975)			
Starter Capacity (standard)			V x kW	12 - 2.5			
Alternator Capacity (standard)			V x A	12 -60			
Dry weight (Low Fan position)			kg (lbs.)	246.0 (542.4)	255.0 (562.2)	256.0 (564.4)	267.0 (588.7)
Dimensions	Low fan position + SAE housing	(L x W x H)	mm (in.)	873.4 x 563.5 x 745.2 (343.9 x 221.9 x 293.4)	873.4 x 563.5 x 791.5 (343.9 x 221.9 x 311.6)	873.4 x 563.5 x 745.2 (343.9 x 221.9 x 293.4)	873.4 x 563.5 x 791.5 (343.9 x 221.9 x 311.6)
	Low fan position + Short housing	(L x W x H)	mm(in.)	786.9 x 563.5 x 745.2 (309.8 x 221.9 x 293.4)	786.9 x 563.5 x 791.5 (309.8 x 221.9 x 311.6)	786.9 x 563.5 x 745.2 (309.8 x 221.9 x 293.4)	786.9 x 563.5 x 791.5 (309.8 x 221.9 x 311.6)
	High fan position + Short housing	(L x W x H)	mm(in.)	746.9 x 536.0 x 745.2 (294.1 x 221.0 x 293.4)	746.9 x 536.0 x 791.5 (294.1 x 221.0 x 311.6)	746.9 x 536.0 x 745.2 (294.1 x 221.0 x 293.4)	746.9 x 536.0 x 791.5 (294.1 x 221.0 x 311.6)

*Center Direct Injection System

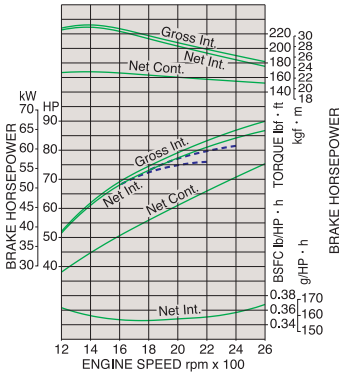
PERFORMANCE CURVES

SAE-J1349

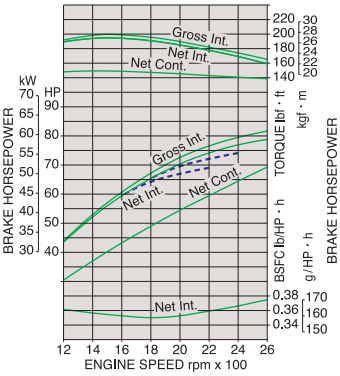
V3300DI



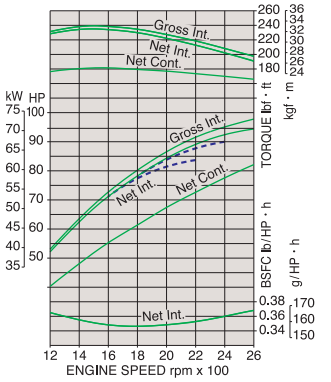
V3300DI-T



V3800DI

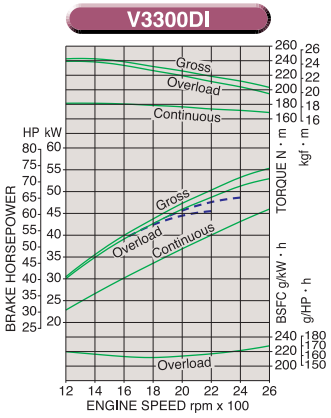


V3800DI-T

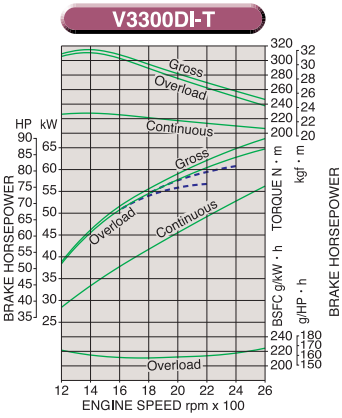


ISO-3046,2534

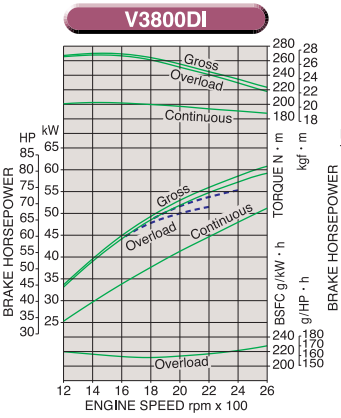
V3300DI



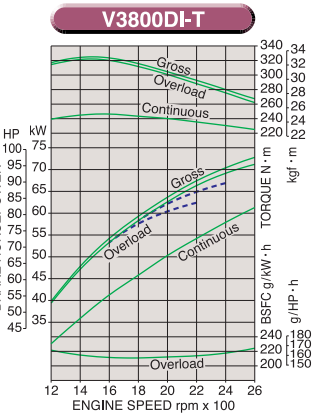
V3300DI-T



V3800DI

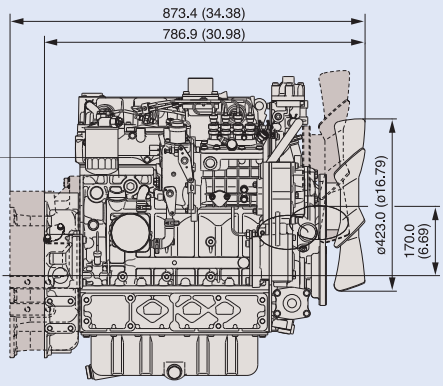


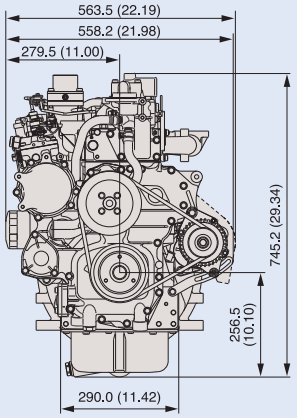
V3800DI-T



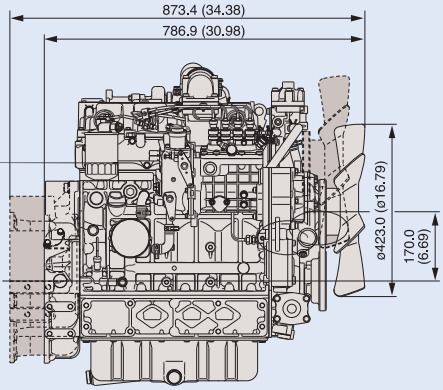
■ DIMENSIONS [mm(inch)]

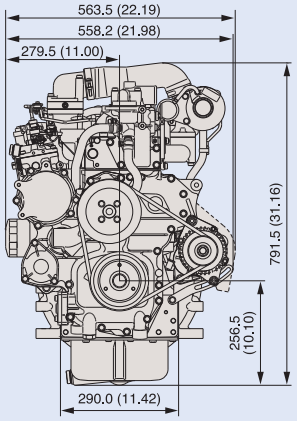
V3300DI/3800DI





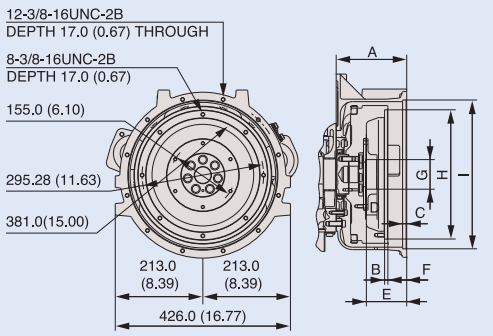
V3300DI-T/3800DI-T



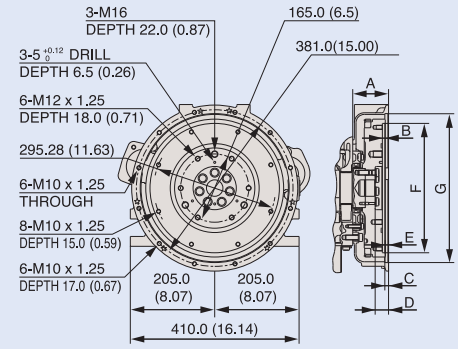


SAE Flywheel and Housing Type

SAE NO.4 Housing — **CLUTCH NO.10 Flywheel**



A	171.5 (6.75)
B	8.0 (0.31)
C	10.0 (0.39)
D	28.0 (1.10)
E	98.1 (3.86)
F	45.8 (1.80)
G	ø72.0 $^{+0.030}_{0}$ (ø2.8346~2.8358)
H	ø314.32H8 $^{+0.081}_{0}$ (ø12.3748~12.3780)
I	ø361.95H8 $^{+0.089}_{0}$ (ø14.2500~14.2535)



A	87.0 (3.43)
B	7.0 (0.28)
C	9.0 (0.35)
D	32.5 (1.28)
E	8.0 (0.31)
F	ø314.32H8 $^{+0.081}_{0}$ (ø12.3748~12.3780)
G	ø361.95H8 $^{+0.089}_{0}$ (ø14.2500~14.2535)

*Specifications and dimensions are subject to change without prior notice.

Kubota

Your Driving Force
KUBOTA ENGINE

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