DEUTZ TCD 9.0/12.0/13.5

For mobile machinery ■ 300 - 450 kW / 400 - 600 hp at 1700-2100 min⁻¹/rpm ■ EU V, US T4, CN 4, EU III A

- Water-cooled 4- and 6-cylinder inline engines with turbocharging and with charge air cooling.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure lowest consumption and total operating cost.
- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission laws. The size and design of the engines will remain identical in the change to US Tier 4 and EU Stage V due to a protected technology. No changes to the customer's device. A variant without EAT is available as an option for less regulated markets.
- The powerful Common Rail injection system and the electronic engine control with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- In terms of aftertreatment, for higher regulated markets, the engines are expected to have no EGR and meet Stage V emissions regulations with a diesel oxidation catalyst (DOC) + SCR with a diesel particulate filter (DPF) and SCR packaged in a single unit. For U.S. Tier 4, and CN IV, the engines will have SCR only. For lower regulated markets the engines will meet the requirements with just EGR and no aftertreatment.
- Long oil change intervals and easy changing of the engine fluids reduce the running cost and increase the availability of the machinery.

- Best cold starting performance even under extreme conditions.
- The extremely compact engine design and customer friendly accessories reduce the installation cost and increase the number of applications.



TECHNICAL DATA

Engine type		TCD 9.0 L4	TCD 12.0 L6	TCD 13.5 L6
No. of cylinders		4	6	6
Bore/stroke	mm in	135/157 5.3/6.2	130/150 5.1/5.9	135/157 5.3/6.2
Displacement	I cu in	9.0 550	12.0 732	13.5 824
Max. nominal speed	min ⁻¹ rpm	2100	2100	2100

Engine type		TCD 9.0 L4	TCD 12.0 L6	TCD 13.5 L6
Power output as per ISO 9249 1)	kW hp	300 402	400 536	450 603
at speed	min ⁻¹ rpm	1700 - 2100	1700 - 2100	1700 - 2100
Max. torque	Nm lb/ft	1700 1254	2500 1844	2800 2065
at speed	min ⁻¹ rpm	1200	1200	1350
Minimum idling speed	min ⁻¹ rpm	600	600	600
Weight as per DIN 70020 Part 7A2)	kg lb	755 1664	1115 2458	1115 2458

¹⁾ Power data without deduction of fan power

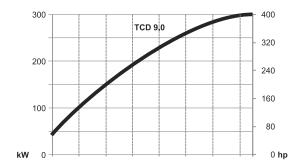


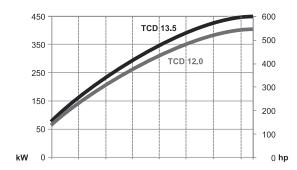
²⁾ Without starter/alternator, cooler and fluids but with flywheel and flywheel housing

TCD 9.0 L4

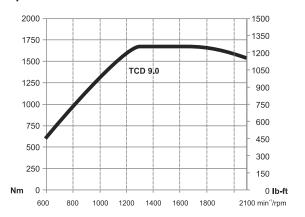
TCD 12.0/13.5 L6

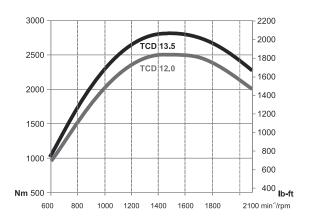
Power



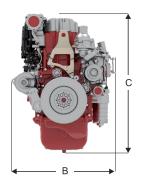


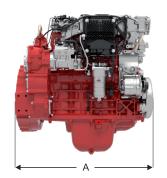
Torque





DIMENSIONS







					EAT
Engine type		Α	В	С	SCR
TCD 9.0 L4	mm in	1061 41.8	827 32.6	1140 44.9	
TCD 12.0 L6	mm in	1390 54.8	853 33.6	1156 45.5	•
TCD 13.5 L6	mm in	1390 54.8	853 33.6	1156 45.5	•

Standard

Note: Preliminary technical data. The engine dimensions and weights vary depending on the scope of delivery.

The data on this data sheet are for information purposes only and are not binding values. For more information please contact your responsible sales partner.

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