

# DEUTZ TCD 5.0

For mobile machinery ■ 100-150 kW / 134-200 hp at 1800-2300 min<sup>-1</sup>/rpm ■ EU Stage V / US EPA Tier 4

- Water-cooled 4-cylinder inline engine with turbocharging and charge air cooling.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure lowest consumption and total operating cost.
- The modern & most compact engine design dedicated by a pipeless engine with reduced number of parts, stringent split of hot and cold side to avoid heat shielding and reduced parasitic losses (oil and water circuit).
- The engine drops into existing installation envelopes of existing DEUTZ engine TCD 4.1 and interface very close to existing machines and engines to minimize transition cost.
- The cross-flow cylinder head with high integration of parts & functions has maintenance free hydraulic lash adjusters and a robust cylinder head cover with high dust & shock resistance.
- 100% power take-off at flywheel and front end. Additionally up to two PTO drives with a total torque of up to 700 Nm.
- The engines meet the requirements of the EU Stage V and US EPA Tier 4 with DVERT<sup>®</sup> selective catalytic reduction (SCR) and particulate filter (DPF). A variant without EAT is available as an option for less regulated markets.



STAGE  
ready V

## TECHNICAL DATA

Engine type		TCD 5.0
No. of cylinders		4
Bore/stroke	mm   in	109/134   4,29 /5,28
Displacement	l   cu in	5,0   305
Max. nominal speed	min <sup>-1</sup>   rpm	1800 - 2300

Engine type		TCD 5.0
Power output as per ISO 14396 <sup>1)</sup>	kW   hp	150   200
at speed	min <sup>-1</sup>   rpm	1800 - 2300
Max. torque	Nm   lb/ft	890   656
at speed	min <sup>-1</sup>   rpm	1500
Minimum idling speed	min <sup>-1</sup>   rpm	600
Weight as per DIN 70020 Part 7A <sup>2)</sup>	kg   lb	485   1069

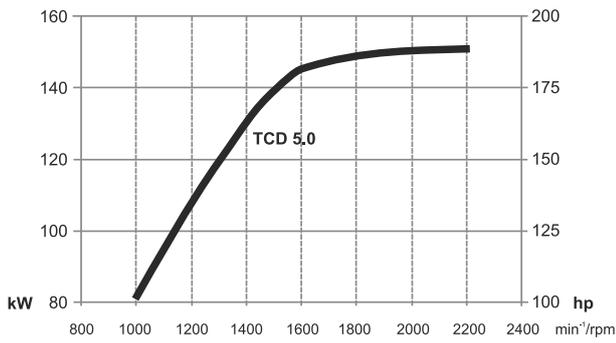
1) Power data without deduction of fan power

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

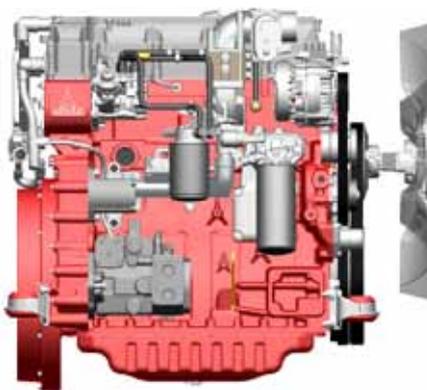
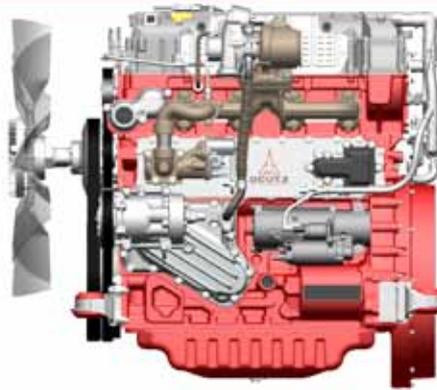
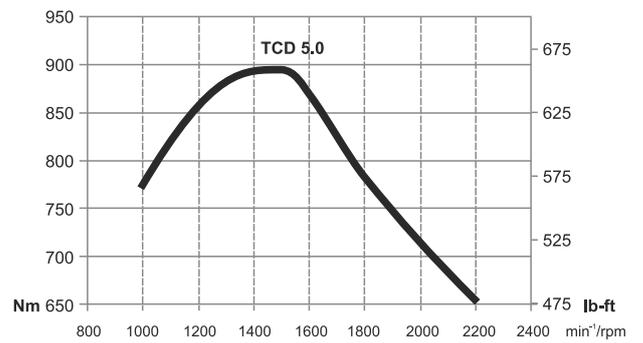
# CHARACTERISTIC CURVES

## TCD 5.0

### Power



### Torque



For EU Step V / EPA Tier 4.  
 All connection variants are available either in 0° or 90° positions for inlet and outlet flanges.  
 Note: The engine dimensions and weights vary depending on the scope of delivery.  
 For more information please contact the DEUTZ AG or the responsible sales partner.

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The engine company. 