

DEUTZ TCD 12.0/16.0

For agricultural machinery

240–520 kW | 322–697 hp at 1800–2100 min⁻¹/rpm | EU Stage IV / US EPA Tier 4

The DEUTZ TCD 12.0 and 16.0 are the water-cooled 6- and 8-cylinder V-engines (90°) for agricultural machinery with a power range from 322 to 697 hp. They already comply with the requirements of the EU Stage IV and the US EPA Tier 4 and are Stage V ready. The engines are turbocharged and charge-air cooled.

DISCOVER THE TCD 12.0/16.0

- Water-cooled, V version (90°) 6 or 8-cylinder engines with turbocharging and charge air cooling.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure minimised fuel and total operating cost.
- Thanks to SCR technology, the cooler sizes do not need to be enlarged in comparison with Tier 3 engines. Fuel consumption is reduced. The exhaust gas aftertreatment system is maintenance free.
- The engines have a modular exhaust aftertreatment system (EAT) with components from the DVERT[®] kit and optional configuration variants. This means a high flexibility in machine integration for the OEM.
- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission legislation.
- 100% power take-off at flywheel and front end and additionally up to three PTO drives with a total torque of up to 520 Nm.
- The extremely compact engine design and customer friendly accessories reduce the installation costs and increase the number of applications.
- The powerful Common Rail injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- Best cold starting performance even under extreme conditions.
- Both engines are also available as a flat version for extremely compact installations.
- The engines meet the requirements of the EU Stage IV and US EPA Tier 4 with SCR. A variant without EAT is available as an option for less regulated markets.



TECHNICAL DATA

Engine type		TCD 12.0 V6	TCD 16.0 V8
No. of cylinders		6	8
Bore/stroke	mm in	132/145 5.2/5.7	132/145 5.2/5.7
Displacement	l cu in	11.9 726	15.9 969
Max. nominal speed	min ⁻¹ rpm	1800-2100	1800-2100

Engine type		TCD 12.0 V6	TCD 16.0 V8
Power output as per ISO 14396 ¹⁾	kW hp	390 524	520 697
at speed	min ⁻¹ rpm	2100	2100
Max. torque	Nm lb-ft	2130 1571	2890 2132
at speed	min ⁻¹ rpm	1400	1400
minimum idling speed	min ⁻¹ rpm	600	600
Specific fuel consumption ²⁾	g/kWh lb/hph	195 0.32	202 0.33
Weight ³⁾	kg lb	995 2194	1260 2778

1) Power data without deduction of fan power.

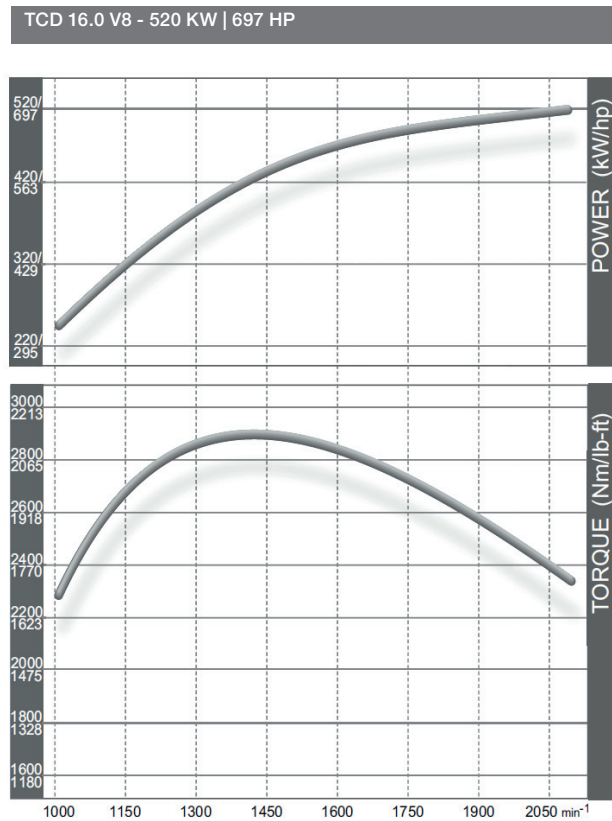
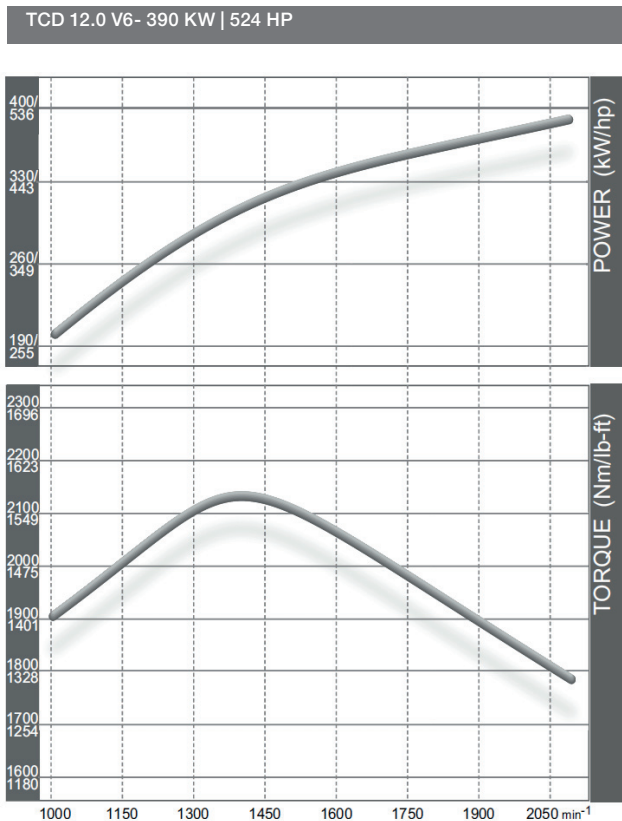
2) Best full load consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C | 6.96 lb/US gallon at 60°F.

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

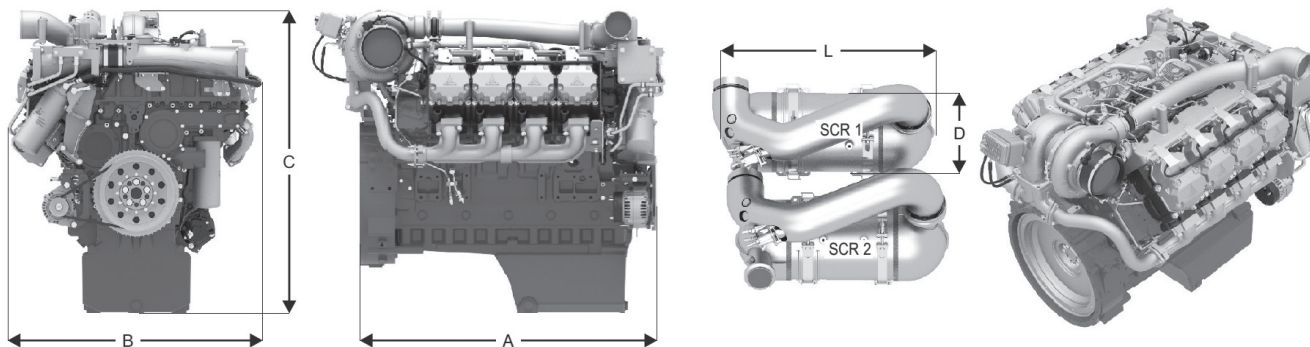
The engine company.



TORQUE CURVES



DIMENSIONS



		A		B		C		SCR 1		SCR 2		DVERT®-AGN					
		mm	in	mm	in	mm	in	D	L	D	L	DOC	SCR 2				
TCD 12.0 V6	mm in	980	38.6	945	37.2	1170	46.1	365	14.4	911	35.9	365	14.4	911	35.9	■	■
TCD 16.0 V8	mm in	1150	45.3	945	37.2	1170	46.1	365	14.4	1064	41.9	365	14.4	1064	41.9	■	■

■ Standard

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

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