

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.

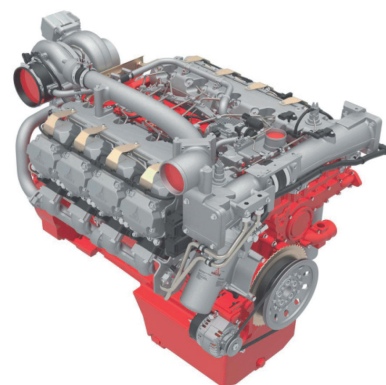
They already comply with the requirements of the EU Stage IV and the US EPA Tier 4 and are Stage V ready. The engines are turbocharged and charge-air cooled.

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. power	kW hp	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.

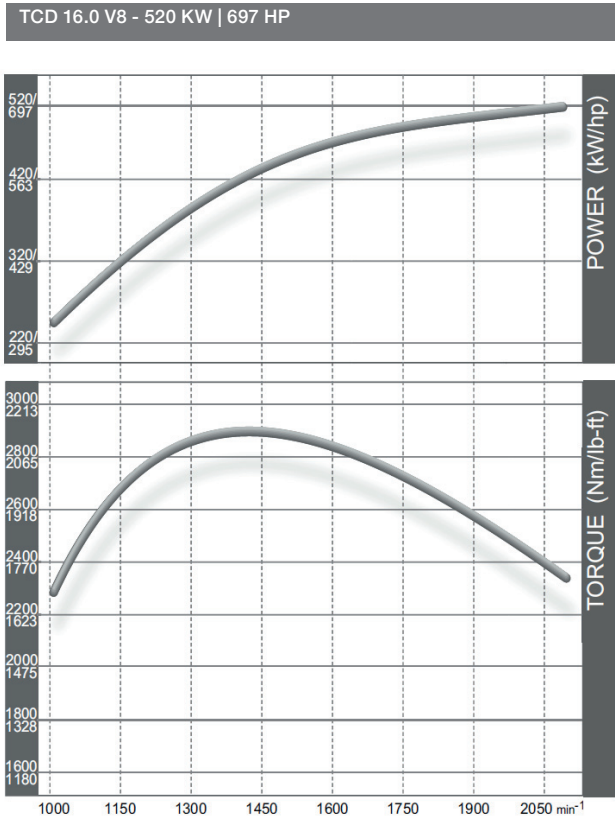
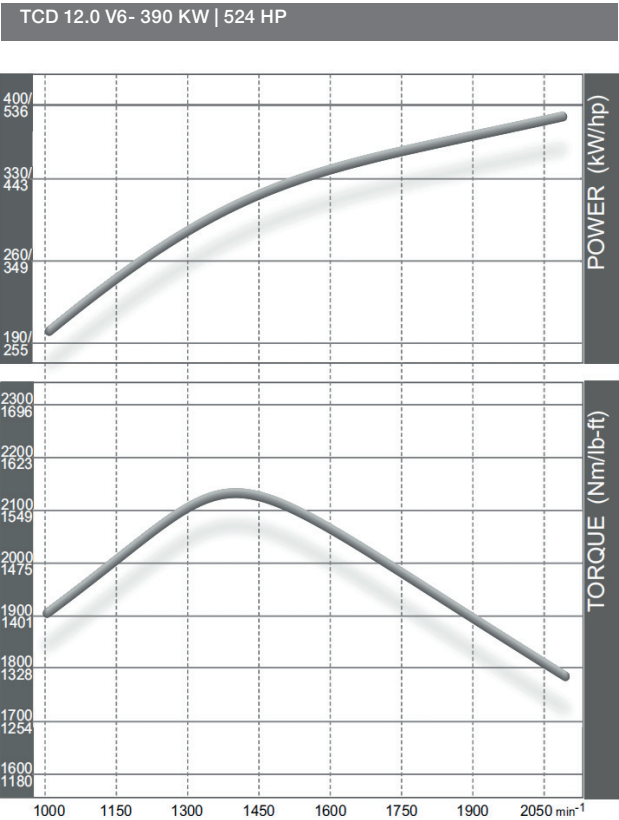
2) Best full load consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C | 6.96 lb/US gallon at 60°F.

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

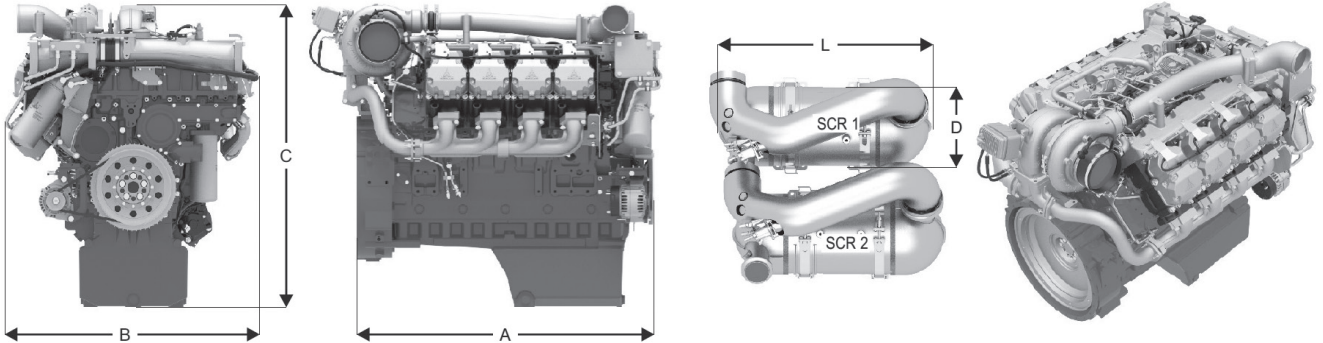
The engine company.



TORQUE CURVES



DIMENSIONS



		A		B		C		D		SCR 1		SCR 2		DVERT®-AGN	
														DOC	
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.

DEUTZ AG
Ottostraße 1
51149 Köln
Deutschland
Tel. +49 221 822-0
Fax +49 221 822-3525
info@deutz.com
www.deutz.com

**DEUTZ Asia-Pacific
(Pte) Ltd.**
10 Gul Crescent
Singapore 629523
Phone: +65 66 72 7800
Fax: +65 62 64 1779 /
62 65 3007
E-mail: dap@deutz.com
www.deutz.com.sg
Lorem Ipsum dolor

MAGIDEUTZ S.A.
6, Rue Sergent Khalich Mohamed
B.P. 13024
20310 Casablanca, Morocco
Phone: +212 (0) 522 30 30 22/23
Fax: +212 (0) 522 30 39 61
E-mail: magid@deutz.ma
www.deutz.ma

