

DEUTZ TCD 4.1/6.1

For agricultural machinery

91–211 kW | 122–283 hp at 2100 min⁻¹/rpm | EU Stage V / US EPA Tier 4



The DEUTZ TCD 4.1 and 6.1 are the compact, water-cooled, 4- and 6-cylinder inline engines for agricultural machinery with a power range from 122 to 283 hp. They already comply with the Stage V exhaust emission requirements. The engines are turbocharged, charge-air cooled, with cooled external exhaust gas recirculation and the 6-cylinder version is also available with two-stage turbocharging.

DISCOVER THE TCD 4.1/6.1

- Water-cooled 4 or 6-cylinder inline engines with turbocharging, charge air cooling and cooled external exhaust gas recirculation. 6-cylinder optionally with two-stage turbocharging for the highest performance requirements.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure minimised fuel and total operating cost.
- The powerful DEUTZ Common Rail (DCR®) injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- 100% power take-off at flywheel and front end.

- The extremely compact engine design with structural oil pan and a customer-oriented modular system of optional add-on parts reduce installation cost and increase the number of applications.
- Best cold starting performance even under extreme conditions.
- 500 h oil change intervals and easy changing of the engine fluids reduce the running cost and increase the availability of the machinery.
- The engines meet the requirements of the EU Stage IV and US EPA Tier 4 with DVERT® selective catalytic reduction (SCR) and particulate filter (DPF). Through the use of the DPF they already comply with the EU Stage V emissions standard expected from 2019. A variant without EAT is available as an option for less regulated markets.

- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission legislation.
- Very smooth running due to optional mass balancing shafts (4 cylinder) guarantees a level of driving comfort.



TECHNICAL DATA

Engine type		TCD 4.1 L4	TCD 6.1 L6	TTCD 6.1 L6
No. of cylinders		4	6	6
Bore/stroke	mm in	101/126 3.98/4.96	101/126 3.98/4.96	101/126 3.98/4.96
Displacement	l cu in	4,1 250	6,1 370	6,1 370
Max. nominal speed	min ⁻¹ rpm	2100	2100	2100

Engine type		TCD 4.1 L4	TCD 6.1 L6	TTCD 6.1 L6
Power output as per ISO 14396 ¹⁾	kW hp	120 160	174 233	211 283
at speed	min ⁻¹ rpm	2100	2100	2100
Max. power	kW hp	126 169	181 243	211 283
at speed	min ⁻¹ rpm	1900	1900	2100
Max. torque	Nm lb/ft	699 516	1072 791	1229 906
at speed	min ⁻¹ rpm	1500	1500	1450
minimum idling speed	min ⁻¹ rpm	800	800	800
Specific fuel consumption ²⁾	g/kWh lb/hph	208 0.34	202 0.33	198 0.33
Weight	kg lb	450 992	676 1490	715 1576

* Based on the proposal by the EU Commission COM (2014) 581 final from 25.09.2014.

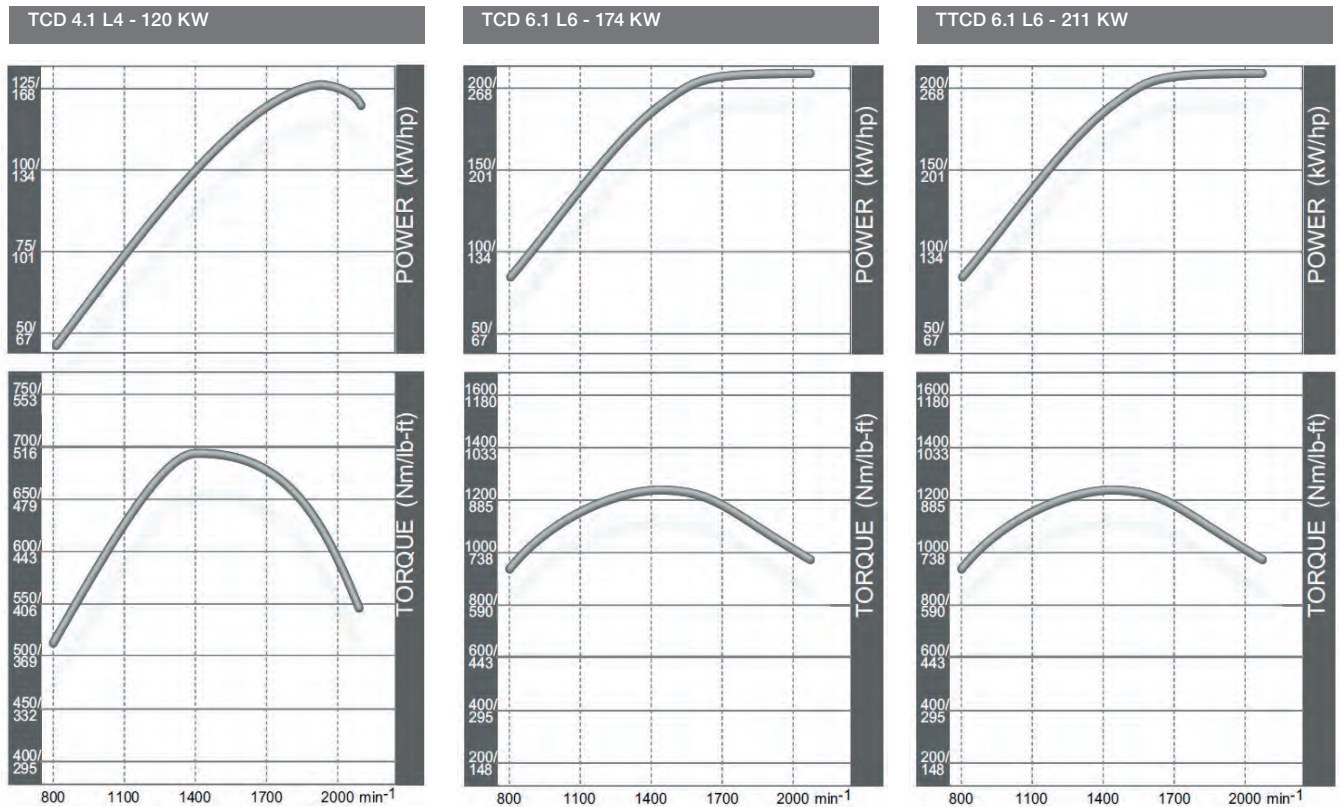
1) Power data without deduction of fan power.

2) Best point consumption refers to diesel with a density of 0.835 kg/dm³ at 15°C.

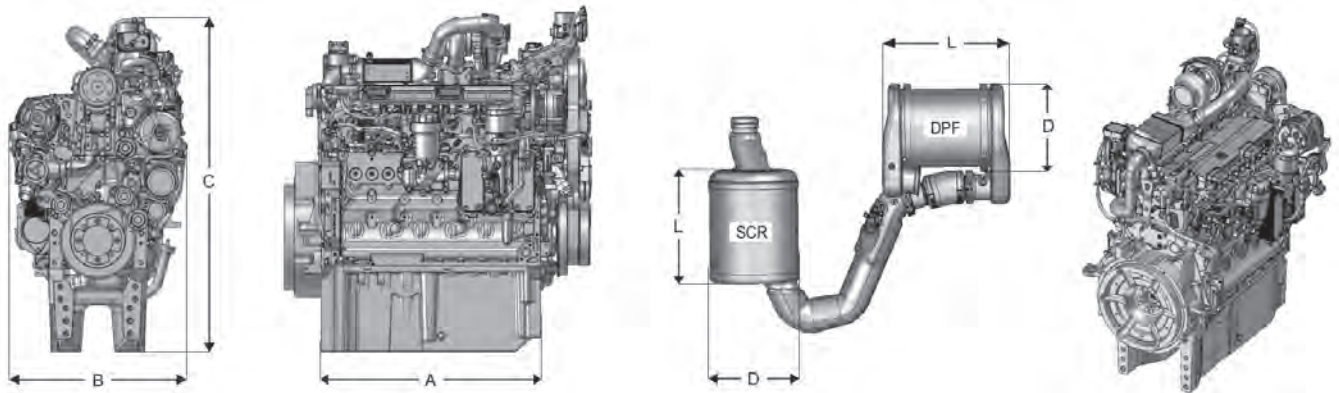
The engine company.



TORQUE CURVES



DIMENSIONS



		A	B	C	D	DPF L	D	SCR L	DVERT®-EAT DOC	DPF
TCD 4.1 L4	mm in	539 21	607 24	1079 43	278 11	470 19	268 11	385 15	■	■
TCD 6.1 L6	mm in	767 30	621 24	1205 47	349 14	347 14	268 11	538 21	■	■
TTCD 6.1 L6	mm in	767 30	639 25	1205 47	349 14	398 16	362 14	367 15	■	■

■ 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

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