

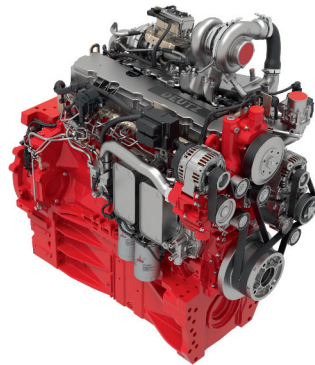
# TCD 7.8

For agricultural machinery

190 - 291 kW | 255 - 390 hp at 2100 - 2200 min<sup>-1</sup> | rpm

EU Stufe IV / US EPA Tier 4

- Water-cooled 6-cylinder in-line engine with turbocharging and charge air cooling. Two-stage turbocharging and cooled external exhaust gas recirculation from EU Stage IV / US EPA Tier 4.
- Engine and exhaust aftertreatment (EAT) are optimised for highest total system efficiency and thus ensure minimised fuel and total operating costs.
- The powerful DEUTZ Common Rail (DCR<sup>®</sup>) injection system and the electronic engine control (EMR 4) with intelligent link to the drive management ensure optimum engine performance at low fuel consumption.
- Extremely compact DPF, which makes installation easier where there is limited space.



- Consistent installation and connection dimensions of the engine facilitate the changeover of existing installations to the next stage of the emission legislation.
- Best cold starting performance even under extreme conditions.
- 500 h oil change intervals and easy changing of the engine fluids reduce the running costs and increase the availability of the machinery.
- The engines meet the requirements of the EU Stage IIIB and US EPA Tier 4 interim with SCR. Additionally for EU Stage IV / US Tier 4 with DVERT<sup>®</sup> Particle filter (DPF). A variant without EAT is available as an option for less regulated markets.
- 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 the installation costs and increase the number of applications.

## Technical data

Engine type	TTCD 7.8 L6	
No. of cylinders	6	
Bore/stroke	mm   in	110/136   4.3/5.4
Displacement	l   cu in	7.8   476
Max. nominal speed	min <sup>-1</sup>   rpm	2100

Engine type	TTCD 7.8 L6	
Power output as per ISO 14396 <sup>1)</sup>	kW   hp	291   390
at speed	min <sup>-1</sup>   rpm	2100
Max. power	kW   hp	291   390
at speed	min <sup>-1</sup>   rpm	1900
Max. torque	Nm   lb/ft	1556   1148
at speed	min <sup>-1</sup>   rpm	1400 - 1600
Minimum idling speed	min <sup>-1</sup>   rpm	600
Specific fuel consumption <sup>2)</sup>	g/kWh   lb/hph	194   0.32
Weight	kg   lb	1240   2734

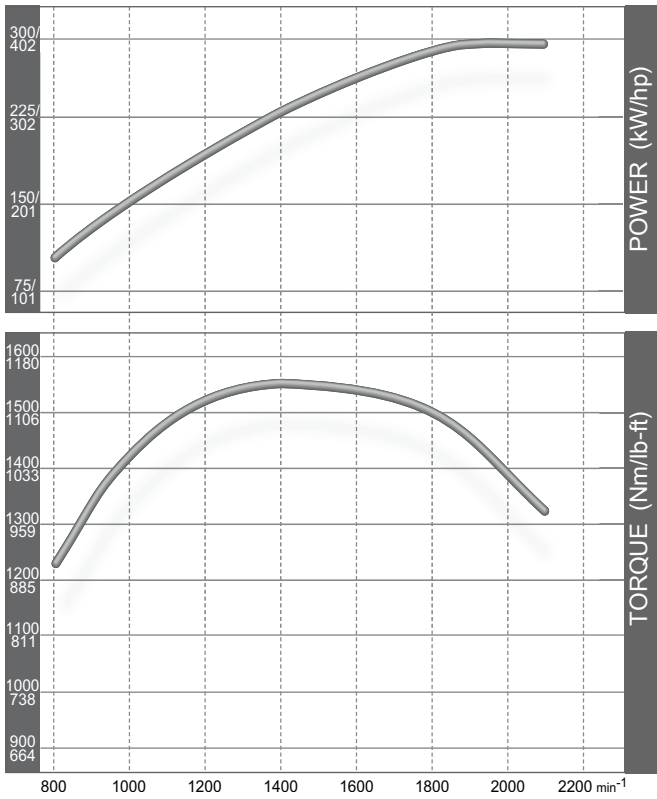
1) Power data without deduction of fan power.

2) Best point consumption refers to diesel with a density of 0.835 kg/dm<sup>3</sup> at 15°C.

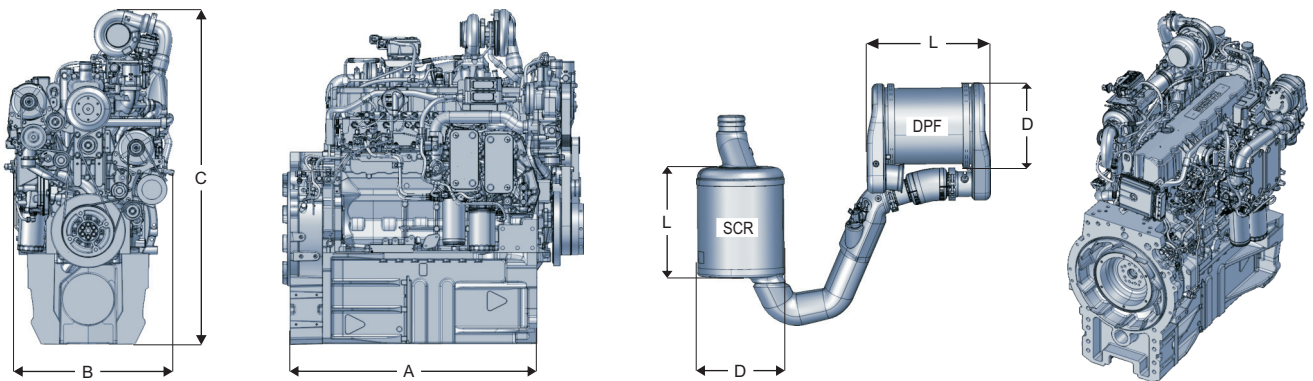
The data on this data sheet are for information purposes only and are not binding values. The data in the quotation is definitive.

# Torque curve

TTCD 7.8 L6 - 291 kW|390 hp



# Dimensions



	Engine Dimensions			DPF		SCR		DVERT® EAT		
	A	B	C	D	L	D	L	DPF	SCR	
TTCD 7.8 L6	mm   in	1028   41	708   28	1403   55	349   14	505   20	353   14	477   19	■	■

■ Standard

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

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For more information please contact the DEUTZ AG Köln or the responsible sales partner.

