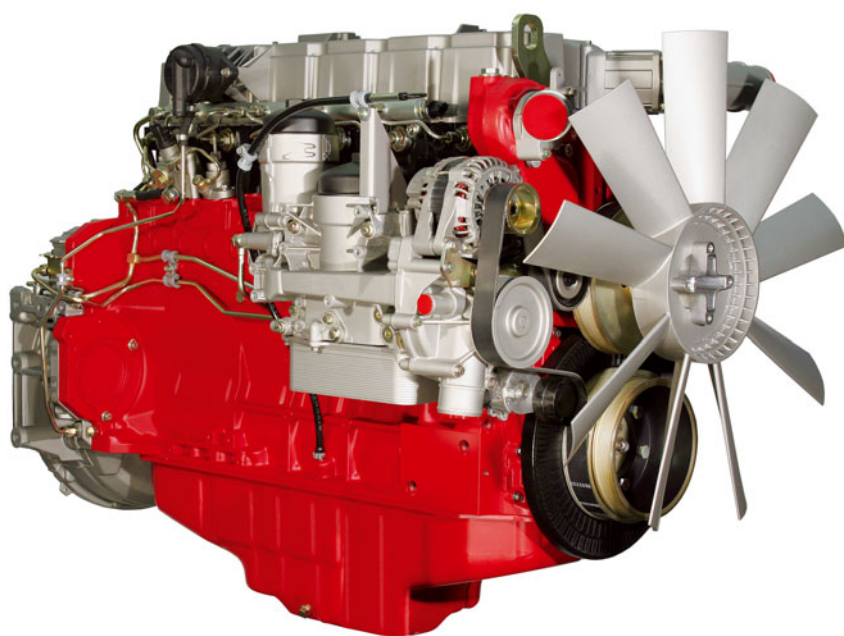


# TCD 2013

The Construction Equipment Engine. 102–243 kW | 137–325.9 hp at 2100/2300 rpm



The engine company.



# Your benefits

- Outstanding efficiency: Very favorable fuel consumption, simple and cost-effective installation and long maintenance intervals
- Low noise emission: Lower costs for sound deadening measures
- Compact engine layout: Variable design of the front end for maximum flexibility
- Smooth running and exceptional power output: Ensure optimum operating comfort
- Very low exhaust emissions: Active contribution to environmental protection

# Characteristics

Modern, liquid-cooled 4- and 6-cylinder in-line engines | Turbocharged with intercooler | Powerful, rugged engine providing high power density | PTO facilities integrated in geared drive | Electronic engine control with intelligent adaptation to drive management | High-pressure fuel injection with DEUTZ Common Rail System (DCR®)

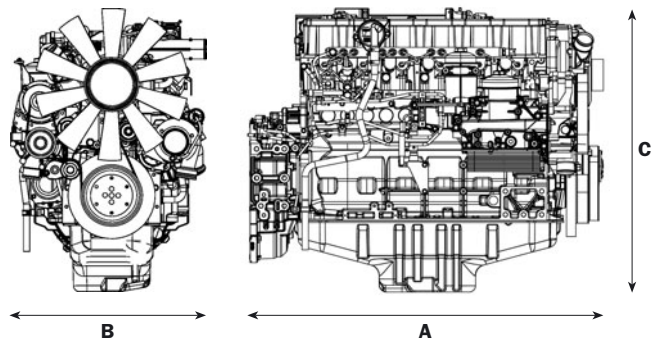
Engine type		TCD 2013 L6 2V	TCD 2013 L4 2V	TCD 2013 L6 4V
Number of cylinders		6	4	6
Bore/stroke	mm   inch	108/130   4.3/5.1	108/130   4.3/5.1	108/130   4.3/5.1
Displacement	l   cu inch	7.1   433	4.8   293	7.1   433
Compression ratio		1 : 18.1	1 : 18.1	1 : 18.1
Max. rated speed	rpm	2300	2300	2200
Mean piston speed	m/s   ft/sec	10.0   32.8	10.0   32.8	10.0   32.8

### Power ratings (TIER III) <sup>1)</sup>

		TCD 2013 L6 2V	TCD 2013 L4 2V	TCD 2013 L6 4V
Power output to ISO 14396	kW   hp	200   268	129   173	243   325.9
At engine speed	rpm	2300	2300	2100
Mean effective pressure	bar   psi	14.6   212	14.1   205	17.2   249
Max. torque	Nm   lb-ft	1100   811	670   494	1310   966
At engine speed	rpm	1500	1600	1450
Minimum idle speed	rpm	650	650	800
Specific fuel consumption <sup>2)</sup>	g/kWh   lb/hp-hr	205   0.34	209   0.34	195   0.32
Weight to DIN 70020, Part 7A <sup>3)</sup>	kg   lb	612   1349	505   1113	660   1455

### Dimensions

in mm   inch	A	B	C
TCD 2013 L6 2V	1269   50,0	657   25,9	1013   39,9
TCD 2013 L4 2V	954   37,6	628   24,7	987   38,9
TCD 2013 L6 4V	1324   52,1	700   27,6	1091   43,0



1) Power ratings without deduction for fan power requirement.  
 2) Specific full load fuel consumption based on diesel fuel with a specific gravity of 0.835 kg/dm<sup>3</sup> at 15 °C (6.96 lb/US gallon at 60 °F).

3) Not including starter motor/alternator, radiator and operating fluids but including flywheel and flywheel housing.

The values specified in this datasheet are for information purposes only and are not binding. The information given in the quotation is decisive.