

DEUTZ TCD 2.2

For mobile machinery ■ 22,5-55,4 kW / 30-75 hp at 2200-2600 min⁻¹/rpm ■ EU Stage V / US EPA Tier 4

- Newly-designed, 3-cylinder engine with cooled, external exhaust gas recirculation with and without turbocharging and optionally with and without charge air cooling.
- Robust engine design for demanding industrial applications based on the successful TCD 2.9 series.
- Use of DVERT® oxidation catalyst (DOC) enables maintenance-free operation under all application and ambient conditions for Tier 4 respectively use of DVERT® particulate filter (DPF) for Stage V.
- The powerful Common Rail injection system and highly-efficient combustion process ensure optimum engine performance at low fuel consumption.
- Similar foot print and major installation interfaces as TCD 2.9 and G 2.2 / G 2.9 LPG engines for ease of installation in diesel and gas powered machines.
- Up to 1000 h oil change intervals, maintenance-free valve train and optionally service-friendly multi-V belt drive result in low maintenance costs and increased machine availability.
- The extremely compact engine design and customer friendly accessories reduce the installation cost and increase the number of applications.
- 100% power take-off at flywheel and front end and additional side PTO drive with up to 120 Nm for the mounting of hydraulic pumps.
- The engines come with a modular exhaust aftertreatment system (EAT) configuration including the option of engine mounted systems. This simplifies machine integration for the OEM considerably and virtually means a drop-in solution.
- Variants without EAT for lesser regulated markets will enlarge the product range at a later point of time.



TECHNICAL DATA

Engine type		D 2.2 L3	TD 2.2 L3	TCD 2.2 L3
No. of cylinders		3	3	3
Bore/stroke	mm in	92/110 3.6/4.3	92/110 3.6/4.3	92/110 3.6/4.3
Displacement	l cu in	2.2 133	2.2 133	2.2 133
Max. nominal speed	min ⁻¹ rpm	2200-2600	2200-2600	2200-2600

Engine type		D 2.2 L3	TD 2.2 L3	TCD 2.2 L3
Power output as per ISO 14396 ¹⁾	kW hp	26 35	44.5 60	55.4 75
at speed	min ⁻¹ rpm	2600	2600	2600
Max. torque	Nm lb/ft	110 81	200 147	250 184
at speed	min ⁻¹ rpm	1600	1600	1600
Minimum idling speed	min ⁻¹ rpm	900	900	900
Weight as per DIN 70020 Part 7A ²⁾	kg lb	200 441	215 474	215 474

1) Power data without deduction of fan power

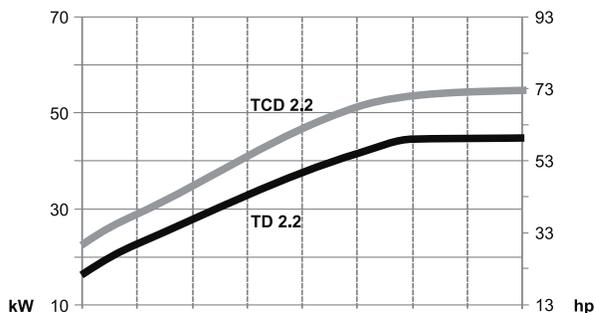
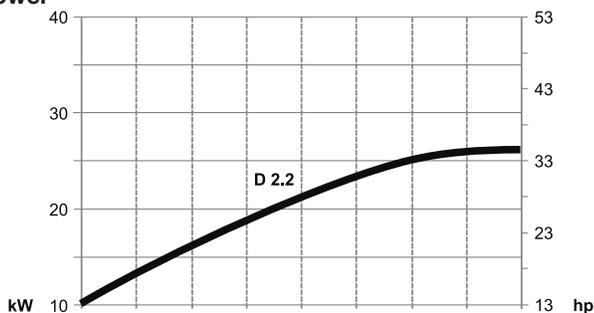
2) Without starter/alternator, cooler and fluids but with flywheel and flywheel housing

CHARACTERISTIC CURVES

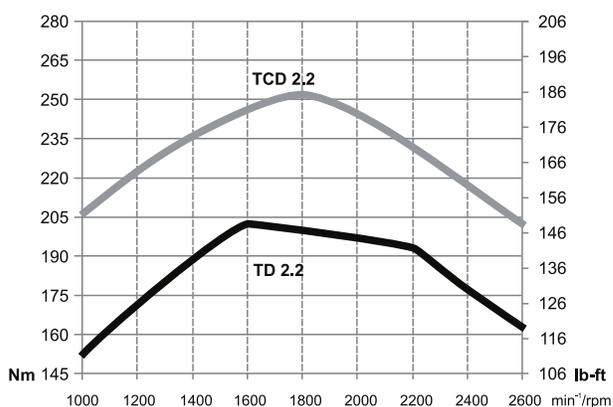
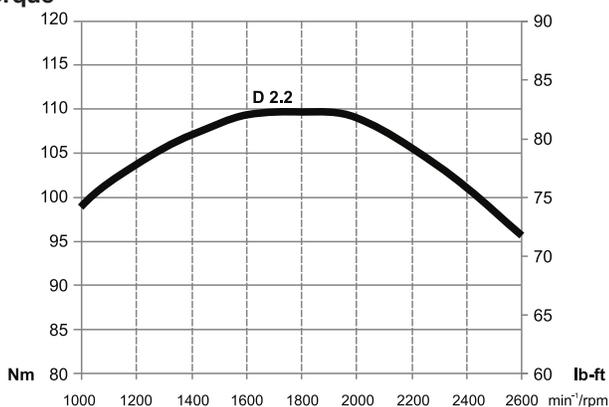
D 2.2

TD / TCD 2.2

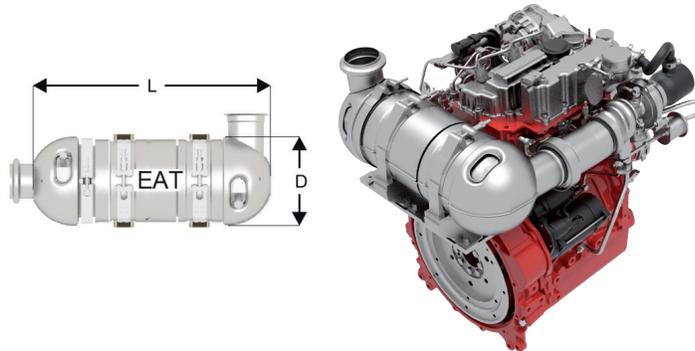
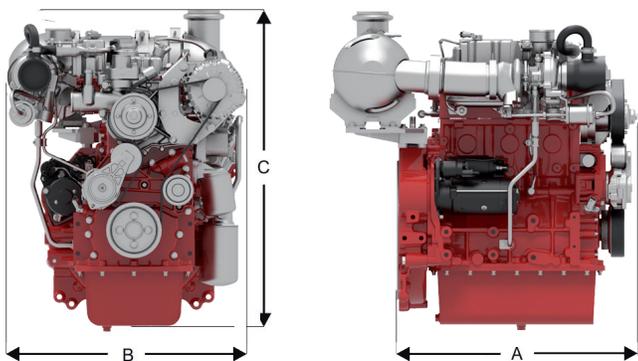
Power



Torque



DIMENSIONS



Engine type		A	B	C
D 2.2	mm in	555 21.9	576 22.7	708 27.9
TD 2.2	mm in	555 21.9	576 22.7	708 27.9
TCD 2.2	mm in	555 21.9	576 22.7	708 27.9

DOC (Tier 4)		DPF (Stage V)		DVERT® EAT	
D	L	D	L	DOC	DPF
199 7.8	400 15.7	199 7.8	613 24.1	■	●
199 7.8	400 15.7	199 7.8	613 24.1	■	●
199 7.8	400 15.7	199 7.8	613 24.1	■	●

- Standard for Stage IIIB / T4
- Standard for Stage V

For EU Step IV / EPA Tier 4 or standard for EU Step V. The DVERT® oxidation catalyst (DOC) does not satisfy the regulations of certain markets that have specified additional limit values for the number of particles (e.g. Switzerland). DEUTZ offers the DVERT® wallflow particulate filter as an option for these markets.

All connection variants are available either in 0° or 90° positions for inlet and outlet flanges. Note: The engine dimensions and weights vary depending on the scope of delivery.

The data on this data sheet are for information purposes only and are not binding values. For more information please contact your responsible sales partner.

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The engine company.