

KEY FACTS

Integrated – Engineered – Power solution

High fuel efficiency - SCR only design

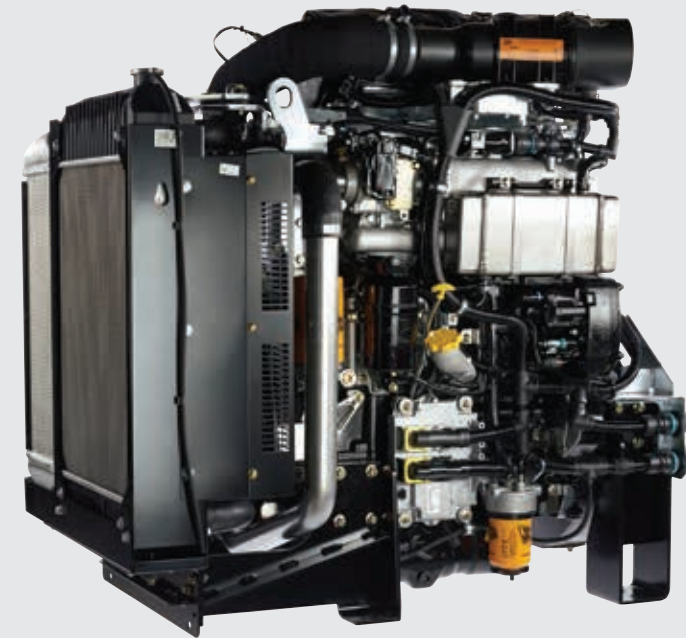
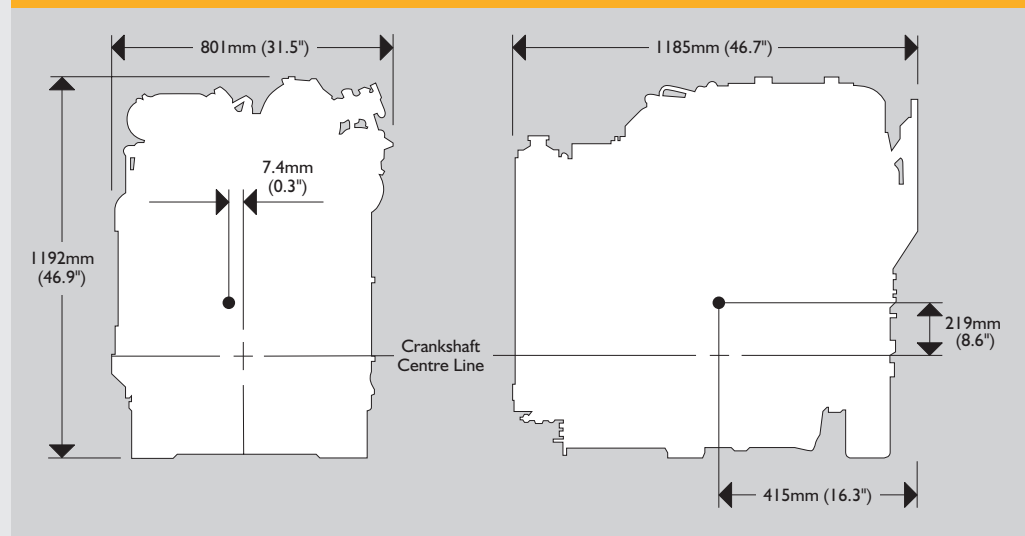
Low cost of ownership

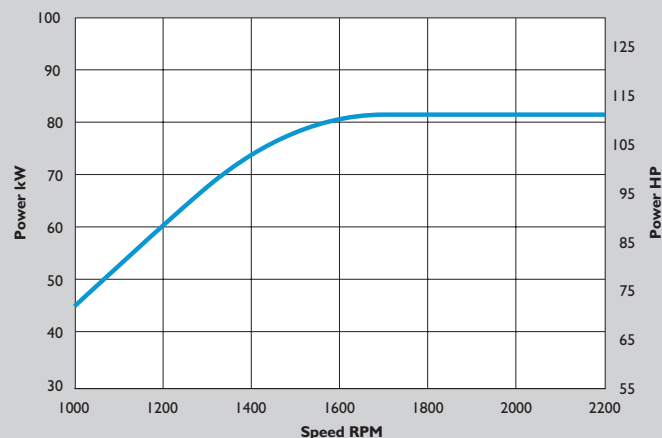
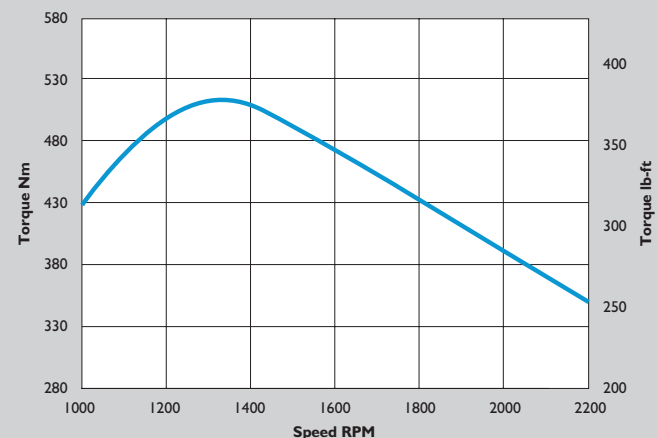
High torque at low speed

JCB Global Support

GENERAL TECHNICAL DATA

Model		444 TA4-81
Maximum rating (gross intermittent)	kW (hp)	81 (108)
Thermodynamic cycle		Diesel 4 stroke
Aspiration		TCAE
Arrangement		In-line 4 cylinder IPU
Emissions level		Stage IV / Tier 4
Bore	mm (in)	103 (4.06)
Stroke	mm (in)	132 (5.20)
Total displacement	cm ³ (in ³)	4399 (269)
Valves per cylinder		4
Injection system		Common Rail
Cooling		Liquid
Direction of rotation (viewed from crank nose)		Clockwise
Dry weight	kg (lbs)	710 (1565)
Rated speed	rpm	2200
Peak torque	Nm (lb-ft)	516 (380.6)
Peak torque speed	rpm	1500
Maximum no load governed speed	rpm	2371
Nominal idling speed	rpm	850
Minimum starting temperature without auxiliaries	°C (°F)	-20 (-4)
Gradability - continuous	degrees	35
Gradability - intermittent	degrees	45


DIMENSIONS


POWER CURVE

TORQUE CURVE

STANDARD CONFIGURATION

Flywheel housing		SAE3
Intake manifold location		Left hand forward
Exhaust manifold / turbocharger location		Right hand rearward
Turbocharger		Wastegate controlled
Fan drive ratios		0.85:1, 1:1, 1.16:1 or 1.25:1
Distance between fan - crankshaft centres	mm (in)	262 (10.3) or 356 (14.0)
Fuel filter		Engine mounted
Fuel lift pump		Pre-filter with primary pump and WIF sensor
Oil filter		Single, vertical - LHS
Oil sump		Pressed steel
Breather system		Open
Oil cooler		Left hand side
Oil filler position		Top and left hand side
Starter motor		12V, 4.2kW
Alternator		12V, 95A
Power Take-off: Heavy Duty		60kW, 205Nm, 1.268:1 RHS
Power Take-off: Light Duty		15kW, 40Nm, 1.625:1 LHS
Finish		Lacquered

*Orientation from flywheel.

EMISSIONS CONTROL SOLUTIONS

OPTIONS

Extensive range of configuration options available - contact local JCB Power Systems dealer, or JCB Power Systems sales and applications department for availability and configuration options.

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