



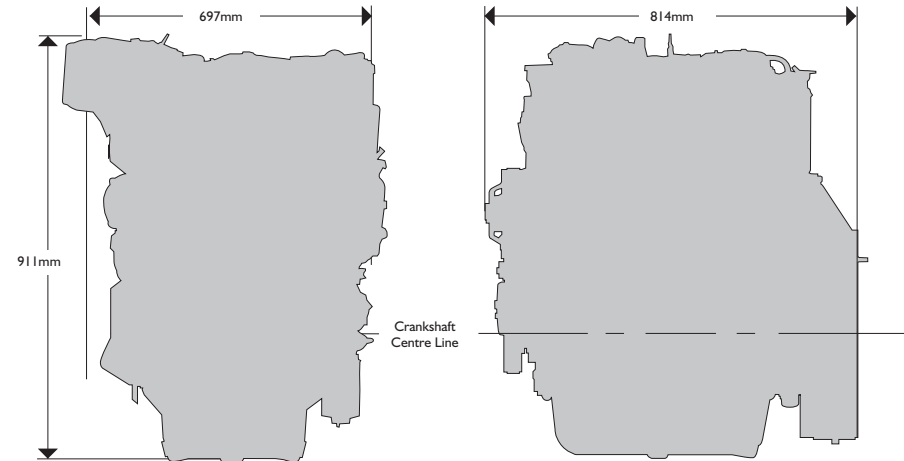
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JCB DIESELMAX ECOMAX TIER 4 ENGINE 68kW, 81kW, 93kW 444



MOBILE MACHINERY



GENERAL TECHNICAL DATA

		68kW	81kW	93kW
Thermodynamic cycle		Diesel 4 stroke	Diesel 4 stroke	Diesel 4 stroke
Air intake		TCAE	TCAE	TCAE
Arrangement		In-line 4 cyl.	In-line 4 cyl.	In-line 4 cyl.
Bore	mm	103	103	103
Stroke	mm	132	132	132
Swept volume	cm ³	4399	4399	4399
Mean piston speed at rated speed	m/s	9.68	9.68	9.68
Valves per cylinder		4	4	4
Cooling		Liquid	Liquid	Liquid
Direction of rotation (viewed from crank nose)		Clockwise	Clockwise	Clockwise
Compression ratio		16.7	16.7	16.7

		68kW	81kW	93kW
Rotational mass moment of inertia excluding flywheel.	kgm ²	0.2255	0.2255	0.2255
Standard flywheel inertia	kgm ²	0.4061	0.4061	0.4061
Maximum rating *(intermittent)	kW	68	81	93
Rated speed	rpm	2200	2200	2200
Maximum torque	Nm	433	516	550
Maximum torque speed	rpm	1500	1500	1500
Maximum no load governed speed	rpm	2450	2450	2450
Nominal idling speed	rpm	850	850	850
BMEP at maximum torque	bar	12.4	14.7	15.7
BMEP at rated speed	bar	8.4	10.1	11.5
Minimum starting temperature without auxiliaries	°C	-20	-20	-20

*As per ISO 14396 (nett power without fan)

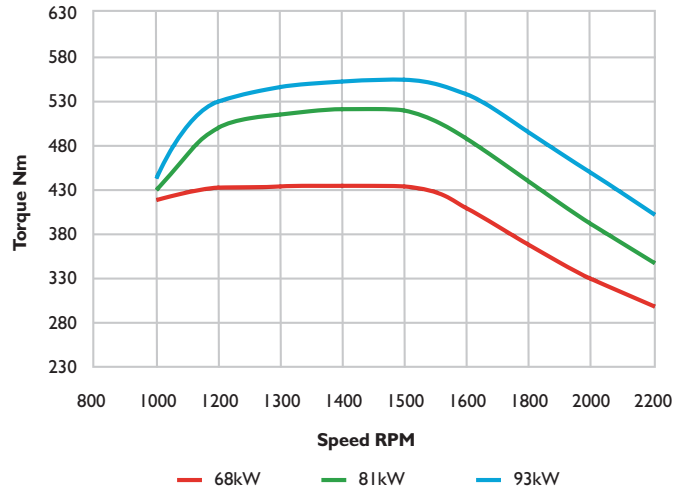


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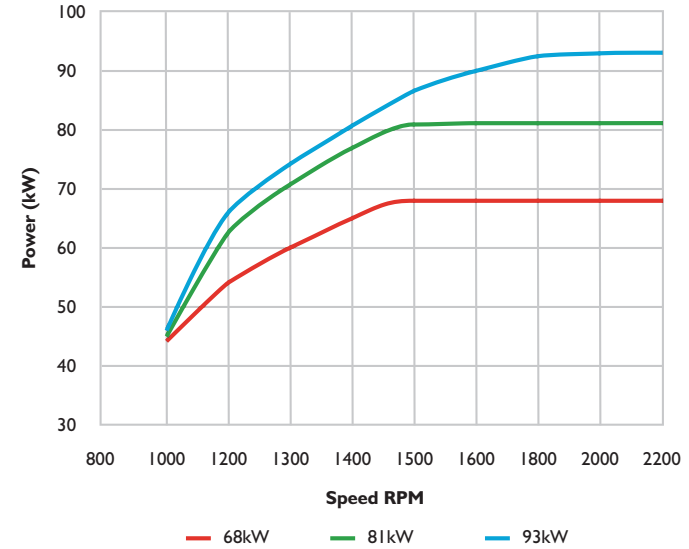
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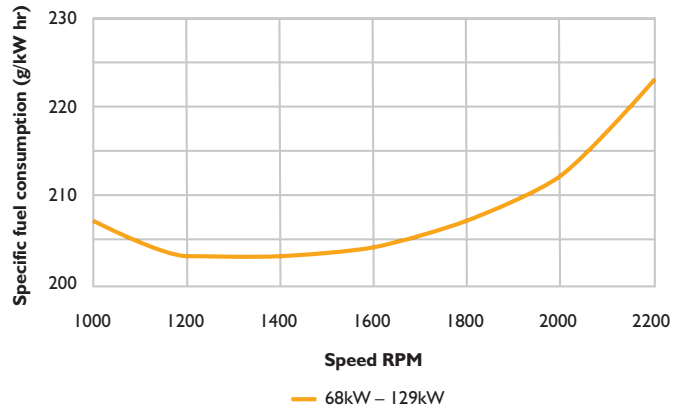
TORQUE CURVES



POWER CURVES



FUEL CONSUMPTION



- Low cost of ownership
- 68kW – 93kW 4.4L Tier 4 Interim
- Improved response compared to Tier 3
- Packaging benefits
- Fuel consumption 5-10% improvement over Tier 3



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