



800 Series

Agricultural, Construction and Industrial Power Units

804C-33

43 kW / 57.6 bhp
47 kW / 63 bhp

A tough naturally aspirated 3.3 litre, 4 cylinder indirect injection diesel for the new generation of more compact agricultural and construction equipment, compressors, material handlers and other industrial applications.

In introducing the 800 Series engines, Perkins has responded to market demands, blending high technology with experience to provide best value, clean engines. For the user, the benefits are lower running costs and better performance. For the manufacturer, class-leading compact packaging, higher power take off and excellent performance provide solutions to help them meet their market needs.

Quiet Clean power

Retaining cost and packaging benefits, the 804C-33 is operator friendly and environmentally sensitive. Running at very low levels of smoke this engine also operates to a level of gaseous emissions beyond what is required for Stage 2 off-highway regulations - worldwide.

800 Series engines benefit from a tuned mechanical structure. Two stage injection ensures complete burning with a lower rate of pressure rise within the cylinders. Together, these features provide low levels of bare engine noise.

High performance, productive power

Along with high torque and 17% torque back-up, 800 Series engines also provide excellent power take-off capability.

Cost efficient power

Thanks to Perkins mastery of air control and its indirect injection system, clean combustion has not been at the expense of fuel consumption, with SFC as low as 245 g/kWh. Service intervals for oil and filters are at 500 hours and all service points are conveniently placed on the left-hand side, for easy accessibility. Fuel filter replacement at 1,000 hours.

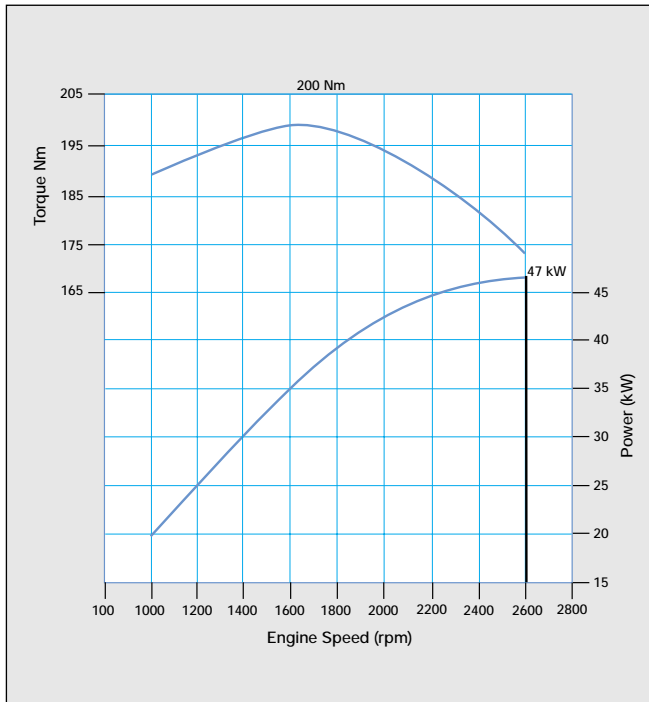
Reliable and durable power

Perkins traditional values of exceptional reliability and durability are vested in the 800 Series range. Manufactured to standards which are customer approved and recognised internationally (ISO 9000). These engines will provide daily reliability and over 8,000 productive hours operation before the need for overhaul should become necessary.

Performance Data	Gross Intermittent ISO/TR 14396		Speed rev/min
	43 kW	47 kW	
Power Output (kW)	43	47	2600
Power Output (bhp)	58	63	2600
Peak Torque (Nm)	185	200	1600
Peak Torque (lbf ft)	136	148	1600

Power output for a run-in engine after 60 hours.
Photographs are for illustration and may not reflect final specifications

800 Series 804C-33



Lower speed ratings may not be read from this curve.

Engine Specification

Cast iron engine block and cylinder head
 Flywheel and flywheel housing
 Ecoplus fuel filter, spin-on oil filter
 Glow plugs for cold starting down to -20%
 Cast iron one-piece exhaust manifold
 Belt-driven coolant pump
 12 volt alternator
 Provision for PTO's
 Choice of cooling fans
 12 Volt starter motor
 Two oil fill positions: front and top cover
 Lub oil pressure switch 12V
 Inlet manifold

General Data

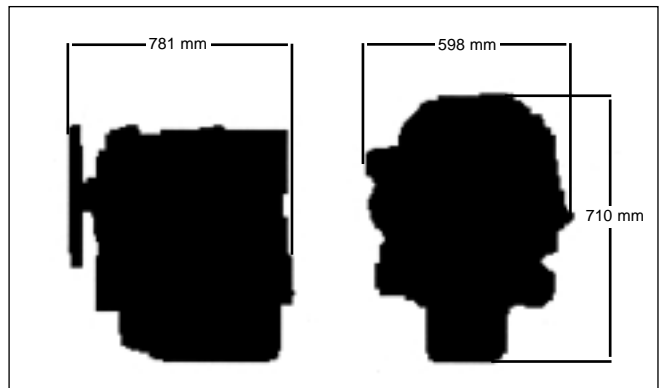
Bore and stroke	94 mm x 120 mm
Number of cylinders	4 in-line vertical
Cubic capacity	3.3 litres
Cycle	4 stroke
Aspiration	Naturally Aspirated
Combustion system	Indirect injection
Compression ratio	22:1
Engine rotation	Anti-Clockwise, viewed on the flywheel
Fuel injection equipment	Bosch EPVE
Governing	All speed mechanical
Cooling system	Liquid
Power take-off	27 kW with drive ratio 1:1, from SAE 'A' flange on right-hand side of timing case.
Length	781 mm
Width	598 mm
Height	710 mm
Dry weight	245 kg

Dimensions and weight will depend on final specification.



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All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company



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