

1100 Series

1103C-33

43 kW/57.5 bhp

The 3 cylinder range within the 1100 Series family is the successor to the very successful Perkins 900 Series. In creation, it has been inspired and led by the future requirements of our customers in meeting the needs of the construction, material handling, agricultural/turf, industrial markets and gen set markets.

With 1100 Series, Perkins has designed to perform and delivered with a wide range of options and ratings.

Built to the most demanding standards, 1100 Series engines meet all the requirements of EC Stage 2 and USA EPA Tier 2 off-highway emissions legislation for 2004 while bringing significant performance and operational cost improvements to users.

The 1103C-33 is a smooth and quiet running 3.3 litre unit efficiently delivering increased performance for a wide range of off-highway applications.

Class Leading Performance

The 1103C-33 provides up to 7.5% more power than even its Perkins 3 cylinder benchmark predecessor. In the working range, peak torque is 16% higher, low-end torque 8% better and with 19% torque back-up all join to raise productivity.

Cleaner, Quieter and Smoother

The 1103C -33 operates at smoke levels that are barely visible to the naked eye. To further compliment its clean running qualities the range includes EcoPlus filtration. Environment friendly, EcoPlus employs a re-usable canister and combustible inner element. Well balanced in operation, fine tuning of the structure and combustion process has also lowered bare engine noise by a further 2 dB(A).

Quality by Design

Product design and Class A manufacturing process improvements have been implemented to enhance product reliability to the needs of today, while maintaining Perkins legendary reputation for durability.

Ease of Installation

The 1103C-33 is a true member of the 1100 Series range resulting in installation commonality with 1104 and 1106 models. The interchangeable nature of key components means customer demands are met without the need for an increased range of service parts.

Lower Operating Costs

Service intervals are now doubled to 500 hours and the warranty period is extended to 2 years as standard. A new open top deck block maintains bore roundness which when combined with a superior honing process effectively, halves the oil consumption to further lower operating costs.

Product Support

Total worldwide service continues to be provided through a network of 4,000 distributors and dealers. This is enhanced by the introduction of TIPSS (The Integrated Parts and Service System) which represents a step change in diesel engine support. TIPSS enables customers to specify and order parts electronically as well as service engines with on-line guides and service tools.

designed to perform ... delivered with choice

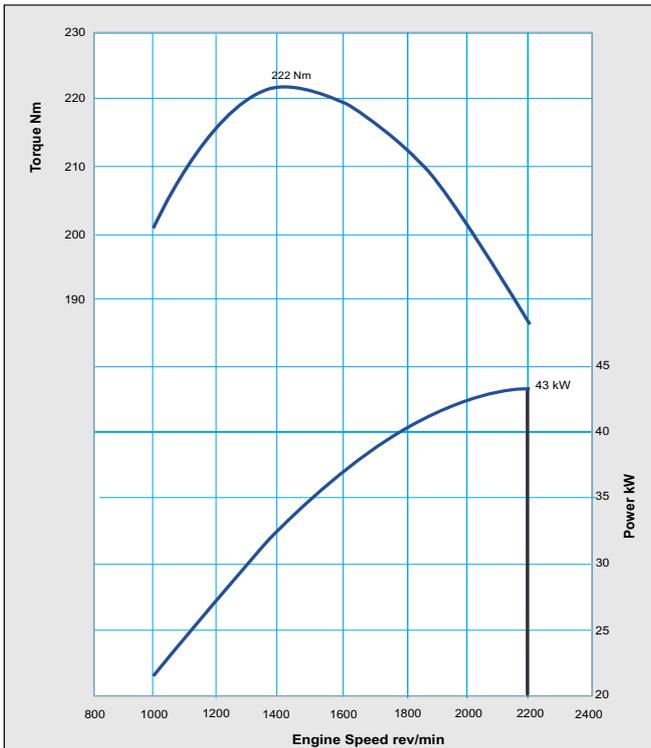
Engine Performance	Gross Intermittent ISO/TR 14396	Engine Speed rev/min
Maximum power (kW)	43	2200
Maximum power (bhp)	57.5	2200
Peak Torque (Nm)	222	1400
Peak Torque (lbf ft)	163.7	1400

Power output for a run-in engine after 60 hours
Rating standard ISO/TR 13492

Photographs are for illustrative purposes and may not reflect final specification.

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Note: lower speed ratings cannot be read off this curve

Engine Specification

- Cast iron engine block
- Ecoplus fuel filter
- Standard or Ecoplus oil filters
- Lub oil sump for 4WD tractors
- Integral inlet manifold
- Cast iron Exhaust manifold
- Engine shut-off solenoid
- 12 Volt Alternator
- Glow plug starting aid
- Lub oil pressure switch
- Coolant temperature switch
- Choice of power take-offs
- Flywheel and flywheel housing
- 12 Volt Starter motor
- Choice of filler positions
- Choice of water outlet
- LHS or RHS dipstick position
- Choice of cooling fans



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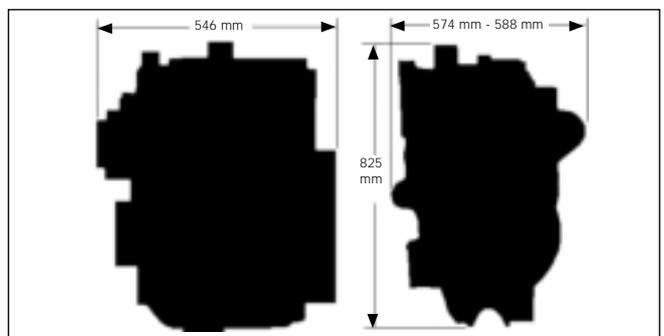
All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company

Option Groups

A wide selection of optional items is offered in order to enable the customer to prepare a specification precisely matched to his needs. These include alternative ratings, exhaust outlets, a range of flywheels and flywheel housings to suit various clutches and transmissions and a selection of power take-offs.

General Data

Bore and stroke	105 mm x 127 mm
Number of cylinders	In-line 3 cylinder
Cubic capacity	3.3 litres (202 cu.in.)
Cycle	4 stroke
Aspiration	Natural aspiration
Combustion system	Direct injection
Compression ratio	19.2:1
Engine rotation	Anti-clockwise viewed on flywheel
Governing	All speed mechanical
Cooling system	Pressurised water
Length	546 mm
Width	574 mm (min) to 588 mm (max)
Height	825 mm
Bare Engine weight	266 kg (approx)



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