

1100 Series 1103C-33T Industrial

55 kW / 74 hp

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



Specification		
Number of cylinders	3 in-line	
Bore and stroke	105 x 127 mm	4.3 x 5.0 in
Displacement	3.3 litres	202 in ³
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	18.2:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling system	Pressurised water	

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THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Class leading performance

- The 1103C-33T provides up to 15% more power than even its Perkins 3 cylinder benchmark predecessor. In the working range, peak torque is 20% higher, low-end torque 14% better and with 25% torque back-up all join to raise productivity

Cleaner, quieter and smoother

- The 1103C-33T 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-33T 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 reduces oil consumption to further lower operating costs
- **Warranties and Service Contracts**
We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally
Discover more: www.perkins.esc

Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world
- To find your local distributor: www.perkins.com/distributor

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Technical information

- 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
- Side mounted turbocharger

Option groups

A wide selection of optional items are 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.

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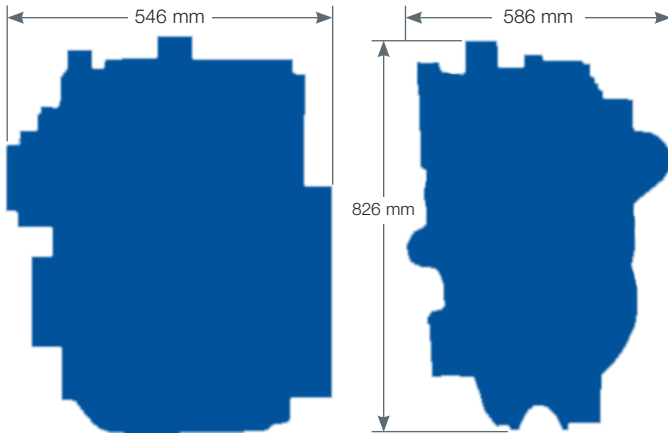
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Engine package weights and dimensions

Length	546 mm	21.5 in
Width	586 mm	23.0 in
Height	826 mm	32.5 in
Weight (dry)	293 kg	646 lb

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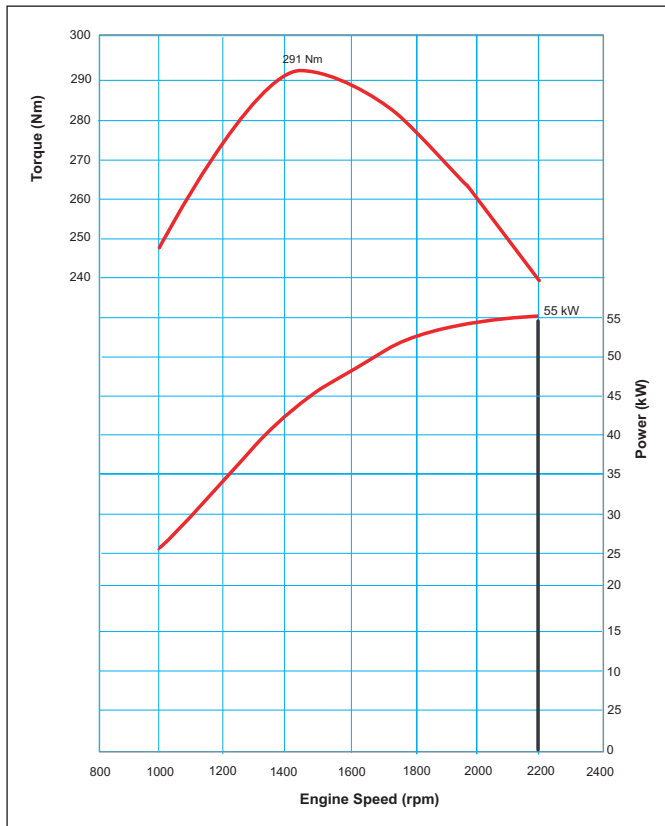
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Performance data	Gross intermittent (ISO/TR 14396)	Speed rpm
Maximum power (kW)	55	2200
Maximum power (hp)	74	2200
Peak torque (Nm)	291	1400
Peak torque (lbf-ft)	215	1400

Power output for a run-in engine after 60 hours

Rating standard ISO/TR 13492

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