

1100 Series 1104C-44T Industrial

74.5 kW / 99.9 hp

The 1100 Series engine family is the successor to the very successful New 1000 Series. It has been inspired by and led by the future requirements of our customers to meet the needs of the construction, materials handling, agricultural/turf and genset markets.

Built to the most demanding standards, the 1100 Series engines meets all the requirements of both EC Stage II and USA EPA Tier 2 off-highway emissions legislation for 2004 and brings significant improvements over the 1100 Series highly successful predecessors.

The 1104C-44T is a quiet 4.4 litre unit delivering improved performance and reduced operating costs in an efficient package ideal for a range of off-highway applications.



Specification		
Number of cylinders	4 in-line	
Bore and stroke	105 x 127 mm	4.3 x 5.0 in
Displacement	4.4 litres	269 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	
Total coolant capacity	7 litres	1.9 US gal

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 **Perkins**[®]

THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Class leading performance

- Surpassing even its highly successful predecessors, this exciting range adds up to 8% more low speed torque and 34% additional torque back-up depending on model

Cleaner and quieter

- The new timing gear train, cylinder block design and use of sound-deadened materials are just some aspects of reducing bare engine noise by up to 3 dBA across the speed range
- High quality filtration of both oil and fuel improves reliability and uses a disposable inner element for cleaner, simpler servicing
- Certified to emissions standards, these engines lower smoke to a point barely visible to the naked eye

Quality by design

- 'Now designed for assembly' simplified sub-assemblies, improved joint and sealing technologies enhance both reliability and durability

Ease of installation

- Minimising installation issues in machine changeover, envelope size and mounting points easily accommodate the update from earlier generation products

Lower operating costs

- Service intervals are now set at 500 hours as standard
- Fuel economy is improved by as much as 6%
- **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

- Total worldwide service is provided through a network of 4,000 distributors and dealers
- TIPSS – The Integrated Parts and Support System enables customers to specify and order parts electronically as well as service engines with on-line guides and service tools
- To find your local distributor: www.perkins.com/distributor

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Technical information

- Cast iron engine block
- Flywheel and flywheel housing
- Glow plug starting aid
- Integral Inlet manifold
- Cast iron exhaust manifold – centre side outlet
- Gear-driven coolant pump
- 12 and 24 volt Alternator 55, 65, 85, 100 amp
- Provision for PTOs
- Choice of cooling fans
- 12 and 24 volt Starter motor
- Plastic J2044 fuel system standard
- Choice of turbo outlet orientation
- Choice of lub oil sump
- Choice of dipstick positions (left or right)
- Choices of filler positions
- Choice of water outlet
- Balancer or non-balancer

Option groups

A selection of optional items is available to enable the customer to prepare a specification precisely matched to customer needs. These involve 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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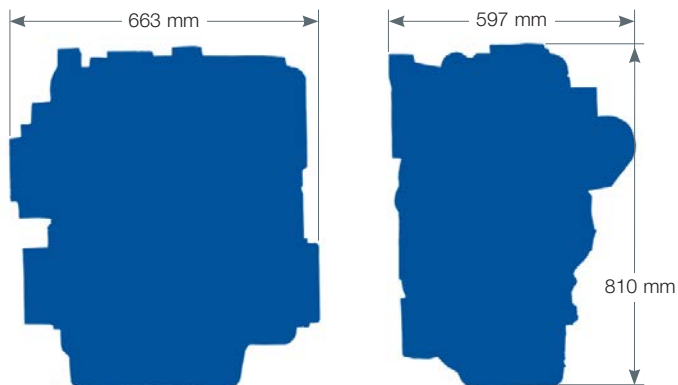
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Engine package weights and dimensions		
Length	663 mm	26.1 in
Width	597 mm	23.5 in
Height	810 mm	32.0 in
Weight (dry)	372 kg	820.1 lb

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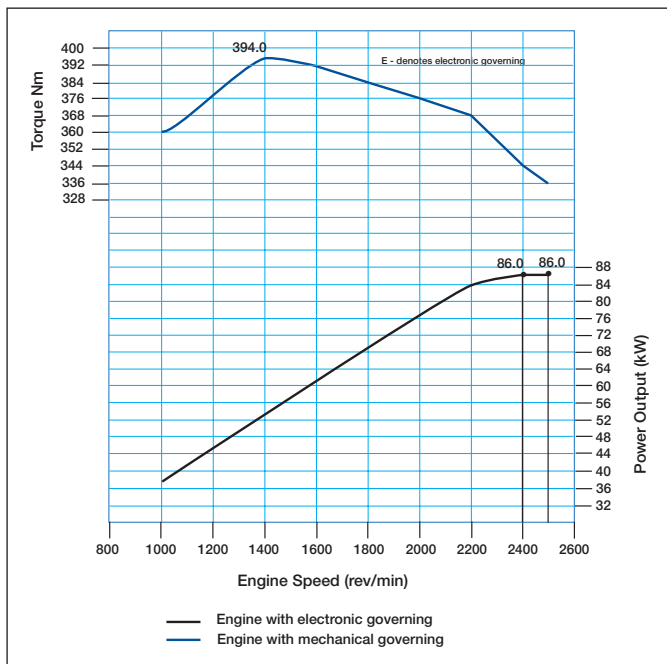
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Performance data	Gross intermittent (ISO/TR 14396)	Speed rpm
Power output (kW)	74.5	2300
Power output (hp)	99.9	2300
Peak torque (Nm)	415.0	1350
Peak torque (lbf-ft)	306.0	1350

Power output for a run-in engine after 60 hours

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