

# 1100 Series 1104D-44T Industrial

74.5 kW / 99.9 hp @ 2200 rpm

With the success of their 1100 Series, single platform engines, Perkins have taken development further with the introduction of the 1100D range to the Series.

The 1100D range is the ultimate power solution. With its wide choice of build options, plus all the features and benefits, it presents a secure future for all our customers at Tier 3/Stage IIIA emissions legislation; and is the platform on which the long-term solution to Tier 4/Stage IIIB legislation will be built.



## Emissions

Meets U.S. EPA Tier 3 and European EU Stage IIIA emissions requirements.

Specification		
Number of cylinders	4 vertical in-line	
Bore and stroke	105 x 127 mm	4.3 x 5.0 in
Displacement	4.41 litres	269 in <sup>3</sup>
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.2:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	up to 11 litres*	3.0 US gal
Cooling system	Liquid	
Total coolant capacity	7 litres	1.9 US gal

\* dependent on sump option and gradeability requirements

[www.perkins.com](http://www.perkins.com)

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**Perkins®**

THE HEART OF EVERY GREAT MACHINE

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## Features and benefits

### Powered by your needs

- The 1100D range offers the possibility to move between different fuel system technologies and aspirations
- The 1104D mechanical range offers a class-leading choice of aspirations. This includes turbocharged and turbo aftercooled models for use worldwide, with the addition of a naturally aspirated model for markets outside of the US

### State of the art design

- Latest diesel technology development used in mechanical control system
- Minimised impact on heat rejection and fuel consumption

### Component commonality

- Shared front and rear ends and 'repeated' components – pistons, con rods and valve gear
- Rationalised inventory, streamlined training and consistent serviceability

### Reduced noise

- Noise minimised at source – engine sound levels have been reduced by up to 1 dBA
- Reduction in noise suppression costs

### Lower installation costs

- Virtually identical hook-up points and envelope size as the 1104C model
- Customer enjoys a seamless transition during the emissions changeover process

### Lower operating costs

- Service intervals are 500 hours standard
- **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](http://www.perkins.esc)

- Low usage warranty package is also available

### Product support

- Through an experienced network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. This global network uses a comprehensive suite of web based tools 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 giving 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](http://www.perkins.com/distributor)

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## Technical information

- Engine ratings
- SAE A or SAE B PTO drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- Adapter plates
- Starter motors
- Fan drives and locations
- Lubricating oil filters and breathers
- Front-end drives
- Alternators
- Belt driven auxiliaries
- Induction manifolds
- Exhaust manifolds
- Fuel filter positions
- Cold start aids
- Engine mountings
- Cooling packs
- Air compressor

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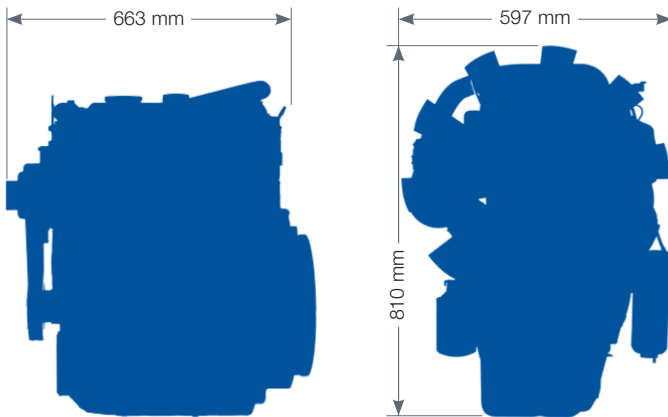
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Engine package weights and dimensions		
Length	663 mm	26.1 in
Width	597 mm	23.5 in
Height	810 mm	31.9 in
Weight (dry)	306 kg	674.6 lb

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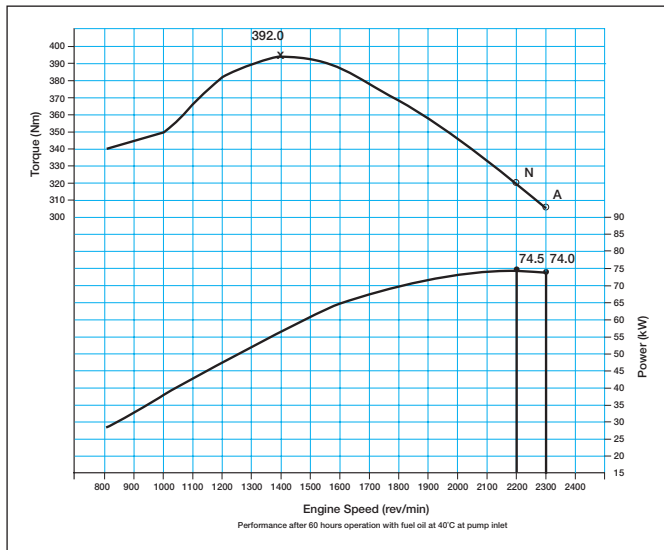
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Note: lower speed ratings cannot be read off this curve

Performance data	Gross intermittent (ISO 14396)	Speed rpm
Power output (kW)	74.5	2200
Power output (hp)	99.9	2200
Peak torque (Nm)	392.0	1400
Peak torque (lbf·ft)	289.1	1400

The above ratings represent the engine performance capabilities to conditions specified in ISO 8528/1, ISO 3046/1:1986, BS5514/1. Derating may be required for conditions outside these; consult Perkins Engines Company Limited.

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