

# 1100 Series 1104D-E44T Industrial

68-74.5 kW (91-100 hp)

Compliant to EU Stage IIIA / EPA Tier 3 emissions, the Perkins® 1104D-E44T is the latest addition to the common platform concept of 1100 Series diesel engines.

This new engine encompasses the advantages of the previous Tier 3 electronic engines in the Perkins range and adds a new world-class common rail fuel system. The new fuel system, with its class-leading filtration, delivers great benefits to customers and end users because of its tolerance to different standards of fuel quality.

Focusing on the common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.



## Powered by your needs

- The Perkins 1104D-E44T delivers up to 74.5 kW (100 hp) and over 420 Nm (310 lb.ft) of torque, providing greater productivity through an improved power to weight ratio.
- The availability of a large range of build options, including a range of SAE 2 and 3 flywheel housings, enables the product to be tailored to specific customer needs.

## Worldwide power solution

- Excellent fuel economy and low heat rejection, allowing customers to use a more compact cooling group.
- The new common rail fuel system delivers world-class robustness and packaged with the new filtration system, excellent tolerance to the different fuel qualities around the world. These fuels include aviation and biofuel (using biofuel that complies with Perkins standards). Options are available to meet local market needs.

## Lower installation costs

- The Perkins 1104D-E44T maintains the same package size and variety of hook-up points as the current 1104C-E44T and 1104C-44T platforms. This commonality reduces the cost impact for the customer during the changeover process.

## Lower operating costs

- The 1104D maintains Stage II / Tier 2 fuel economy. This will allow many customers to keep existing fuel tanks, avoiding the need for costly redesign.

- Service intervals are set at 500 hours as standard and Perkins provides comprehensive warranty cover for two years (up to 3000 hours), with three years on major engine components.
- A low usage warranty package is also available.

## Long-term power solution

- The 1104D range has been designed to fully comply with stringent Stage IIIA / Tier 3 emissions regulations, providing an emissions compliant power solution for the future.

## Product support

- With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition.

## Warranties and Service Contracts

- We provide 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.com](http://www.perkins.com)  
[www.perkins.com/esc](http://www.perkins.com/esc)

[www.perkins.com/distributor](http://www.perkins.com/distributor)  
to find your local distributor

Aspiration	Power			Torque			Rating Type
	kW	hp	Speed	Nm	lbf.ft	Speed	
TA	68.0	91.2	2200	399	294.2	1400	C
TA	74.5	100.0	2200	420	310.0	1400	C

Power for a run-in engine after 60 hours.  
Net Intermittent = Intermittent service where maximum power and/or are, cyclic (time at full load not to exceed 50%).  
Rating standard ISO/TR 14396.

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

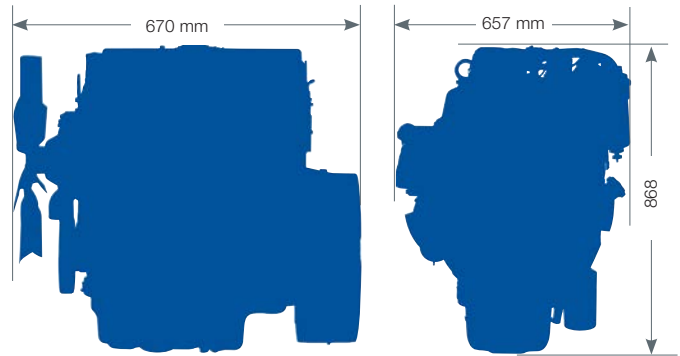
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

# 1100 Series 1104D-E44T Industrial

68-74.5 kW (91-100 hp)



## Engine specification

- Engine ratings
- SAE B PTO Drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- 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
- Power and torque curve tailoring
- Cooling packs
- Control panel
- Air compressor

## General data

Number of cylinders .....	4 in-line
Bore and stroke.....	105 mm x 127 mm (4.13 x 5.0 in)
Displacement .....	4.4 litres (244.1 in <sup>3</sup> )
Aspiration .....	Turbocharged
Cycle.....	4 stroke
Combustion system.....	Direct injection
Compression ratio .....	16:2.1
Direction of rotation .....	Anti-clockwise, viewed on flywheel
Cooling system.....	Liquid
Total lubrication system capacity.....	8 litres (2.1 US gals)
Total coolant capacity .....	7 litres (1.8 US gals)
Dimensions – Length .....	670 mm (26.3 in)
Width .....	657 mm (25.8 in)
Height .....	868 mm (34.1 in)
Dry weight .....	360 kg (794 lbs)

Final weight and dimensions will depend on completed specification

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