

1100 Series 1104D-E44TA Industrial

74.5-106 kW / 100-142.1 hp

Compliant to EU Stage IIIA / EPA Tier 3 emissions, the Perkins® 1104D-E44TA is the latest addition to the common platform concept of 1100 Series diesel engines.

This 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.



Specification		
Number of cylinders	4 in-line	
Bore and stroke	105 x 127 mm	4.1 x 5.0 in
Displacement	4.4 litres	269 in ³
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16:2.1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	8 litres	2.1 US gal
Cooling system	Liquid	
Total coolant capacity	7 litres	1.8 US gal

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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

1100 Series 1104D-E44TA Industrial

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Features and benefits

Powered by your needs

- The Perkins 1104D-E44TA delivers up to 106 kW (142 bhp) and over 556 Nm (410 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-E44TA maintains the same package size and variety of hook-up points as the current 1104C-E44TA and 1104C-44TA 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 3,000 hours), with three years on major engine components
- **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/esc
- 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
- To find your local distributor: www.perkins.com/distributor

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Technical information

- 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

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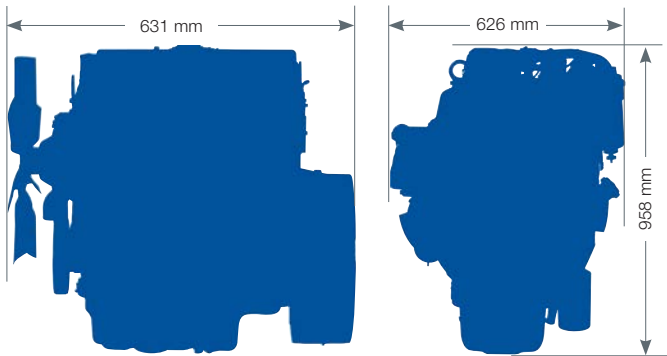
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Engine package weights and dimensions		
Length	631 mm	24.8 in
Width	626 mm	24.6 in
Height	958 mm	37.7 in
Weight (dry)	360 kg	794 lb

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Speed rpm	Power kW	Power hp	Speed rpm	Torque Nm	Torque lbf-ft	Rating type
2200	74.5	100.0	1400	441	325.0	C
2200	82.0	110.0	1400	486	358.5	C
2200	87.0	116.7	1400	516	380.6	C
2200	96.5	129.4	1400	516	380.6	C
2200	102.0	136.8	1400	536	395.3	C
2200	106.0	142.0	1400	556	410.1	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