

# 1104D-44T Industrial Open Power Unit

58.5-66 kW (78.4-88.5 hp) @ 2200 rpm  
EU Stage IIIA/U.S. EPA Tier 3 equivalent

Whatever your application, there's an 1104 engine for you. Part of the Perkins 1100 Series, the range's 4 cylinder, 4.4 litre engines are smooth and quiet in operation. Designed to meet EU Stage II/IIIA and U.S. EPA Tier 2/Tier 3 equivalent emissions standards, the 1104 range offer a choice of mechanical or electronically controlled common rail engines. Electronically controlled engines deliver the right fuel injection for the load applied to the engine. Common front and rear ends, connection points and components across the range, making it easy to install a different 1100 Series engine in your application. Turbocharged engine designed to meet EU Stage IIIA/U.S. EPA Tier 3 equivalent emissions standards for off-road machines.



## Specifications

Power Rating		
Minimum Power	58.5 kW	78.4 HP
Maximum Power	66 kW	88.5 HP
Maximum Torque	392 Nm @ 1400 rpm	289.1 lb-ft @ 1400 rpm
Rated Speed	2200 rpm	

Emission Standards	
Emissions	EU Stage IIIA/U.S. EPA Tier 3 equivalent

General		
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 l	269 in <sup>3</sup>
Aspiration	Turbocharged	
Rotation from Flywheel End	Anti-clockwise	
Combustion System	Direct injection	
Compression Ratio	18.2	
Cooling System	Liquid	
Cycle	4 stroke	
Number of Cylinders	4 inline	

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Photographs are for illustrative purposes only and may not reflect final specification.  
All information is substantially correct at time of printing and may be altered subsequently.  
Final weights and dimensions will depend on completed specification.

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Total Coolant Capacity	15 l	4 gal (US)
Total Lubricating Capacity	8.4 l	2.2 gal (US)

Engine Dimensions*		
Dry Weight	536 kg	1181.6 lb
Height	965 mm	38 in
Length	1277 mm	50.2 in
Width	687 mm	27 in

## Features and Benefits

### Ease of maintenance

All of the engines have 500 hour service intervals. And single side service components, for ease of end user servicing.

### Easy to upgrade

Common front and rear ends, connection points and components across the range mean that you can easily install a different 1100 Series engine in your application.

### Expertise whenever you need it

With our network of distributors, you will find all the advice you need to ensure you get the right engine. By building strong relationships with you, we make sure you have access to the full power of the Perkins brand and expertise. Our fully trained experts deliver total service support 24/7, 365 days of the year. Whether you need technical information, parts identification or ordering, our distribution network is there to make sure your Perkins engine keeps on running at peak performance.

### Oil and fuel filtration

The high quality oil and fuel filtration on our 1100 Series range produces an engine that is reliable and durable. Ecoplus fuel filtration is available to boost its clean running qualities and the engine is capable of running on a wide range of global fuels including biodiesel.

## Technical Information

### Air inlet system

- Mounted air filter and turbocharger

### Control system

- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

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## Cooling system

- Fan drive
- Fan (pusher or puller)
- Radiator
- Water pump

## Flywheels and flywheel housing

- SAE No. 3 flywheel housing

## Fuel system

- Fuel filter

## General

- Engine mounting brackets
- Glow plug starting aid

## Oil system

- Oil cooler and filter
- Timing case oil filler

## Power take-off

- SAE A or SAE B front PTO (142/280 Nm)

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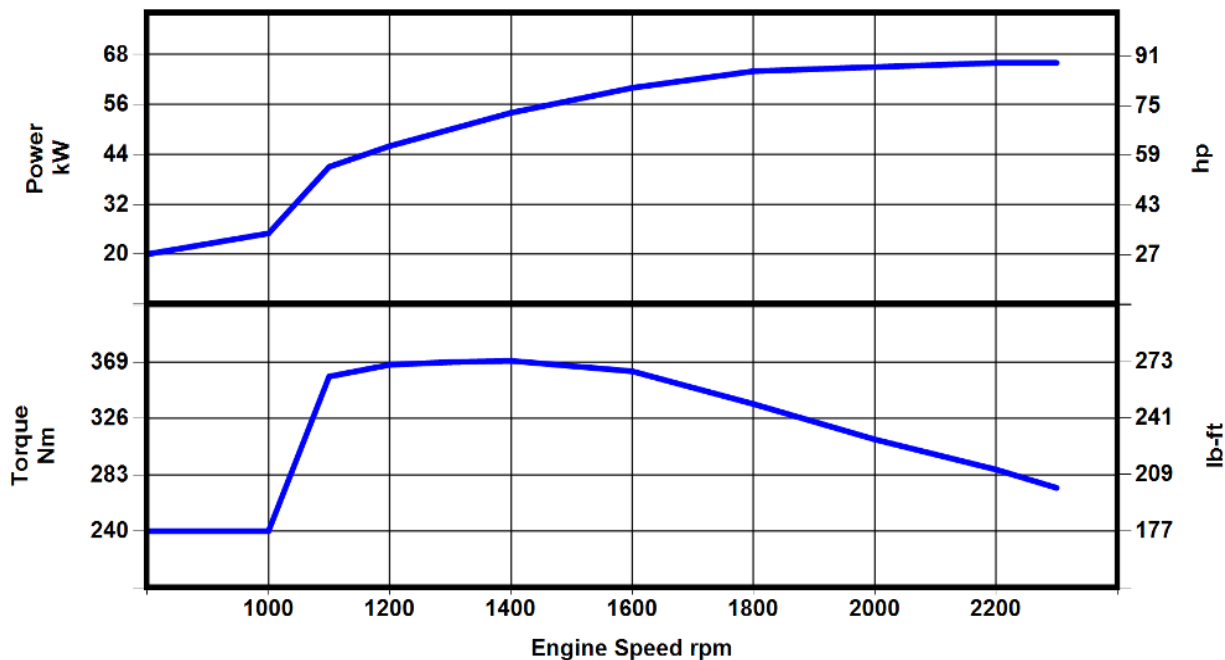
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# 1100 Series 1104D-44T INDUSTRIAL ENGINE

EU Stage IIIA/U.S. EPA Tier 3 equivalent

66.0-66.0 kW / 88.5-88.5 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
66.0	88.5	2200	370	273	1400	Industrial C intermittent rating
66.0	88.5	2300	370	273	1400	Industrial C intermittent rating

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

## Rating Definitions and Conditions

### IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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