

# 1103C-33T Industrial Diesel Engine

55 kW (74 hp) @ 2200 rpm

EU Stage II/U.S. EPA Tier 2 equivalent

The 1103 range provides cost effective power solutions and is proving particularly popular with operators of tractors. The engines meet EU Stage II/Stage IIIA and U.S. EPA Tier 2/Tier 3 equivalent emissions standards. The compact 3.3 litre engines have a cylinder head and block design that gives mastery of air control, maintains bore roundness under pressure, and reduces combustion and mechanical noise. High quality oil and fuel filtration deliver improved reliability and durability.

The 1103D engines – which deliver 36.9-58 kW (49.5-77.8 hp) at 2200 rpm – are particularly suitable for tractors and compact industrial applications, and have features and benefits that really meet your industrial power applications needs. Designed to meet EU Stage II/U.S. EPA Tier 2 equivalent emissions standards.



## Specifications

Power Rating		
Minimum Power	55 kW	74 HP
Maximum Power	55 kW	74 HP
Maximum Torque	291 Nm @ 1400 rpm	215 lb-ft @ 1400 rpm
Rated Speed	2200 rpm	

Emission Standards	
Emissions	EU Stage II/U.S. EPA Tier 2 equivalent

General		
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	3.3 l	202 in <sup>3</sup>
Aspiration	Turbocharged	
Rotation from Flywheel End	Anti-clockwise	
Combustion System	Direct injection	
Compression Ratio	18.2:1	
Cooling System	Liquid	
Cycle	4 stroke	
Number of Cylinders	3 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	4.4 l	1.2 gal (US)
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## Disclaimer

Note 1	Final dimensions dependent on selected options
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## Engine Dimensions\*

Dry Weight	293 kg	646 lb
Height	826 mm	32.5 in
Length	546 mm	21.5 in
Width	586 mm	23 in

## Features and Benefits

### 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 1103 range produces an engine that is reliable and durable. Ecoplus fuel filtration is available to boost its clean running qualities. Capable of running on a wide range of global fuels including biodiesel.

### Power and performance

With a maximum torque at 1400 rpm and an excellent back-up, the 1103 is an ideal choice for agricultural tractors. Models in the range are either naturally aspirated or turbocharged to give you the extra power you require.

## Technical Information

### Air inlet system

- Cast iron exhaust manifold
- Integral inlet manifold
- Side mounted turbocharger

### Control system

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EU Stage II/U.S. EPA Tier 2 equivalent

- 12 volt alternator
- 12 volt starter motor
- Engine shut-off solenoid

## Cooling system

- Coolant temperature switch
- Cooling fan
- Water outlet

## Fuel system

- EcoPlus fuel filter

## General

- Cast iron engine block
- Choice of filler positions
- Glow plug starting aid

## Oil system

- Dipstick (left or right position)
- Lubricating oil pressure switch
- Lubricating oil sump for 4WD tractors
- Standard or EcoPlus oil filters

## Power take-off

- Provision for PTOs

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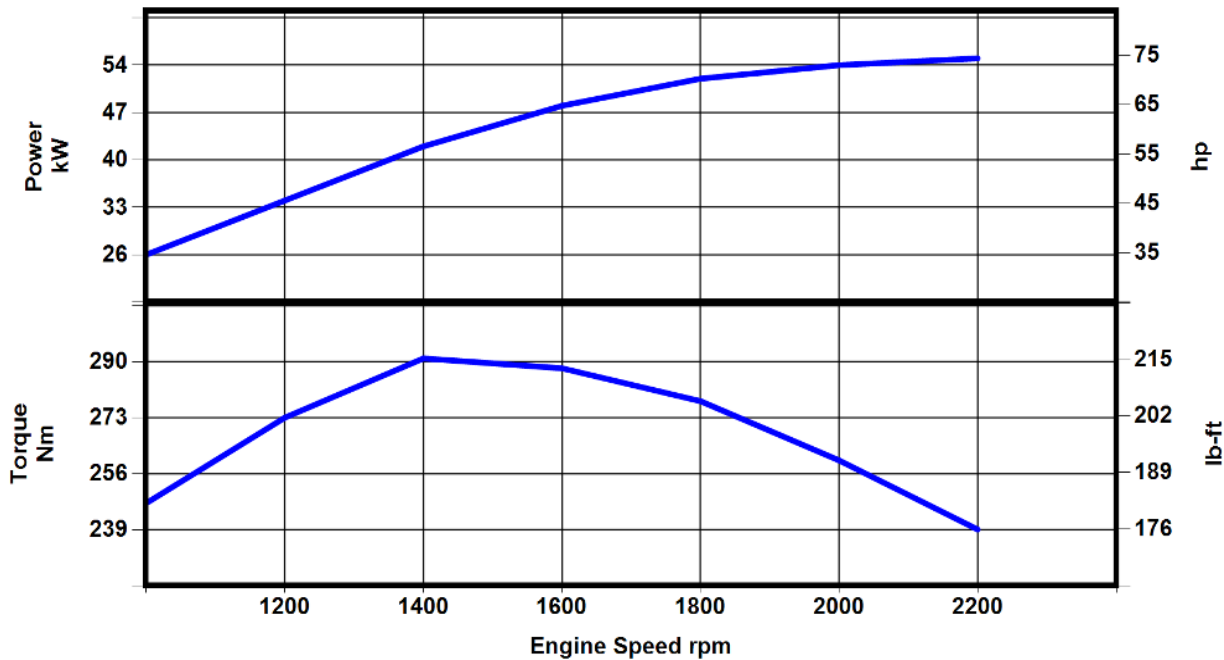
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# 1100 Series 1103C-33T INDUSTRIAL ENGINE

EU Stage II/U.S. EPA Tier 2 equivalent

48.0-55.0 kW / 64.4-73.8 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
48.0	64.4	2200	270	199	1400	Industrial C intermittent rating
55.0	73.8	2200	291	215	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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