

1103D-33TA Industrial Diesel Engine

58 kW (77.8 hp) @ 2200 rpm

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

The 1103D-33TA engine is turbocharged aftercooled aspirated. It has a maximum torque of 310 Nm at 1400 rpm.

Designed to meet EU Stage IIIA/U.S. EPA Tier 3 equivalent emissions standards.



Specifications

Power Rating		
Minimum power	58 kW	77.8 hp
Maximum power	58 kW	77.8 hp
Rated speed	2200 rpm	
Maximum torque	310 Nm @ 1400 rpm	228.6 lb-ft @ 1400 rpm

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

General		
Number of cylinders	3 inline	
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	3.3 litres	202 cubic in
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke	
Compression ratio	18.23:1	
Combustion system	Direct injection	
Rotation (from flywheel end)	Anti-clockwise	

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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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Cooling system	Liquid	
Total coolant capacity	4.4 litres	1.2 US gal

Engine Dimensions*		
Length	546 mm	21.5 in
Width	586 mm	23 in
Height	826 mm	32.5 in
Dry weight	276 kg	608.5 lb

Disclaimer	
*	Final dimensions dependent on selected options

Features and Benefits

Compact package size

The compact dimensions of the 3 cylinder engine with stressed block options, meet the requirements for agricultural and compact industrial applications. Common hook-up points across the 1100 Series range enable easier upgrade to higher emissions Stages/Tiers and larger 4 and 6 cylinder engines.

Designed as a 3 cylinder engine

The 1103 range includes a cylinder block design that ensures bore roundness is maintained under pressure, as well as giving lower combustion and mechanical noise.

Ease of maintenance

The engines have mechanical fuel injection for ease of maintenance with 500 hour service intervals. And single side service components, for ease of end user servicing.

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

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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

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

Cooling system

- Coolant temperature switch
- Cooling fan
- Water outlet

Flywheel and flywheel housing

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 oil filters

Power take-off

- Provision for PTOs

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