

# 1100 Series 1103D-33 Industrial

36.9 kW / 49.5 hp

With the success of the 1100 Series, single platform engines, Perkins have taken development further with the introduction of the new 1100D range.

The 1103D engine is a unique mechanical power solution available in naturally aspirated, and turbocharged aftercooled models. The 1103D engine is a refined and compact product.

The 1100D range with its wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Stage IIIA emissions legislation.



Specification		
Number of cylinders	3 in-line	
Bore and stroke	105 x 127 mm	4.3 x 5.0 in
Displacement	3.3 litres	202 in <sup>3</sup>
Aspiration	Natural aspiration	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	19.2:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling system	Pressurised water	
Total coolant capacity	4.43 litres	1.2 US gal

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## Features and benefits

### Powered by your needs

- The 1100D range offers the possibility to move between different fuel system technologies and aspirations
- The 1103D mechanical range offers a class-leading choice of aspirations. This includes turbocharged aftercooled and naturally aspirated models for markets outside of the US

### State of the art design

- Niche offering tailored to compact industrial and agricultural applications
- Latest diesel technology development used in mechanical control system
- Minimised impact on heat rejection and fuel consumption

### Component commonality

- Shared front and rear ends and 'repeated' components – pistons, con rods and valve gear
- Rationalised inventory, streamlined training and consistent serviceability

### Lower installation costs

- Comparable hook-up points and envelope size to the 1103C model for ease of installation
- Customer enjoys a seamless transition during the emissions changeover process

### Lower operating costs

- Service intervals are 500 hours standard
  - Perkins comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components. These are supported by multilevel Extended Service Contracts that can be bought additionally
- Discover more: [www.perkins.esc](http://www.perkins.esc)

### Product support

- Perkins actively pursues product support excellence by ensuring our distribution network invest in their territory – strengthening relationships and providing more value to you, our customer
- Through an experienced global network of distributors and dealers, fully trained engine experts deliver total service support around the clock, 365 days a year. They have a comprehensive suite of web based tools at their fingertips covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts and service. We give 100% reassurance that you receive the very best in terms of quality for lowest possible cost .. wherever your Perkins powered machine is operating in the world
- To find your local distributor: [www.perkins.com/distributor](http://www.perkins.com/distributor)

*Meets Stage IIIA emissions requirements (Stage IIIA refers to European standards)*



THE HEART OF EVERY GREAT MACHINE

# 1100 Series 1103D-33 Industrial

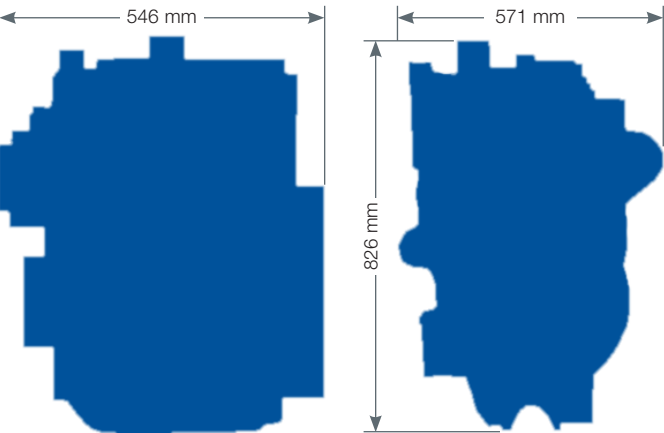
36.9 kW / 49.5 hp

## Technical information

- Cast iron engine block
- Ecoplus fuel filter
- Standard oil filters
- Lub oil sump for 4WD tractors
- Integral inlet manifold
- Cast iron exhaust manifold
- Engine shut-off solenoid
- 12 volt Alternator
- Glow plug starting aid
- Lub oil pressure switch
- Coolant temperature switch
- Choice of power take-offs
- Flywheel and flywheel housing
- Integral inlet manifold
- Cast iron exhaust manifold
- Engine shut-off solenoid
- 12 volt starter motor
- Choice of filler positions
- Choice of water outlet
- LHS or RHS dipstick position
- Choice of cooling fans

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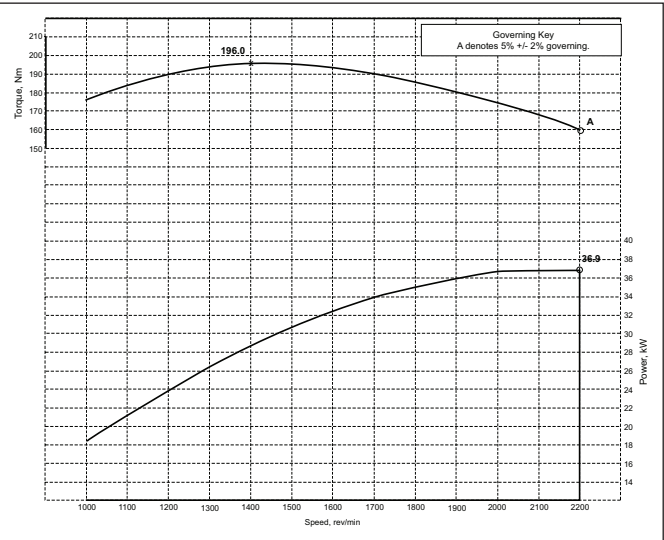
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Engine package weights and dimensions		
Length	546 mm	21.5 in
Width	571 mm	22.5 in
Height	826 mm	32.5 in
Weight (dry)	264 kg	582 lb

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Engine performance	Gross intermittent (ISO/TR 14396)	Speed rpm
Maximum power (kW)	36.9	2200
Maximum power (hp)	49.5	2200
Peak torque (Nm)	196.0	1400
Peak torque (lbf·ft)	145.0	1400