

# 400 Series 403D-15T Industrial

30.0 kW / 40.2 hp @ 3000 rpm

The Perkins® 400D range has been developed in consultation with our marketplace. This 1.5 litre, 3 cylinder, turbocharged engine is a new product to the 400 Series product line-up. The 403D-15T increases a customer's choice and offers increased power with a minimal impact on package size. The 403D-15T also offers all the customer benefits they can experience from other products in the range.

The 400 Series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfil their needs in the construction, materials handling, agricultural/turf, genset and compressor markets, it is another class leading diesel range from Perkins.

Built to the most demanding standards, the 400D engines meet all the requirements of the off-highway emissions legislation for Stage IIIA and MLIT Step 4.

Long 500 hour service intervals, a two-year standard warranty, low noise and harshness, and a wide range of options make the 400 Series range the complete solution for compact power needs. The 403D-15T is a very quiet 1.5 litre unit that delivers improved performance and reduced operating costs in a small, efficient package ideal for a range of off-highway applications.



## Ultra-compact power

- Up to 30 kW (40.2 hp) from an engine envelope of 0.20 cubic metres (7 cubic feet)
- Coolant temperature of 112°C allows reduction in radiator sizes

## Clean and quiet

- Noise levels have been kept to a minimum
- Subjective harshness has been carefully controlled making the engine sound even quieter

## Durable power

- Product design and process improvements enhance both engine reliability and durability
- An improved governor and compliance testing delivering reliability of 6,000 hours
- A standard two-year warranty demonstrates our confidence in durability and reliability

## Low operating costs

- Approved for operation on biodiesel\* concentrations of up to 20%
- Oil and filter changes are 500 hours, dependent on load factor

- Engine durability and reliability, the warranty offering, and ease of installation combine to drive down the cost of ownership

## 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

## Warranties and Service Contracts

We provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally

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[www.perkins.com/distributor](http://www.perkins.com/distributor)  
[To find your local distributor](#)

Performance Data	Gross Intermittent (ISO/TR 14396)	Speed rpm
Power Output (kW)	30.0	3000
Power Output (hp)	40.2	3000
Peak Torque (Nm)	111.9	1800
Peak Torque (lbf-ft)	82.5	1800

Power output for a run-in engine after 60 hours.

\*Subject to conformance with ASTM D6751 and EN14214.

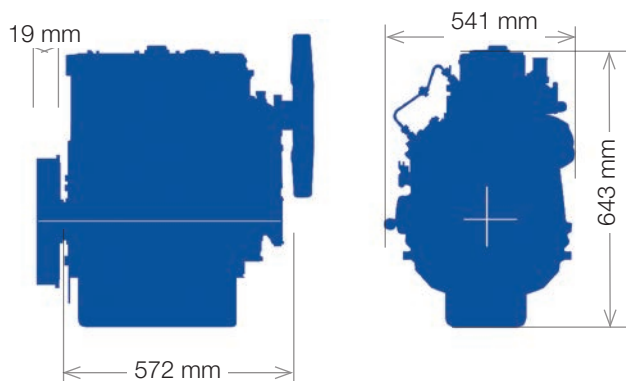
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

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## Engine specification

- Cast iron engine block
- Flywheel and flywheel housing
- CTD fuel injection pump
- Spin on fuel filter
- Glow plug starting aid
- Lub oil sump
- Spin on lub oil filter
- Inlet manifold
- Cast iron exhaust manifold – side outlet
- Coolant pump belt driven
- Choice of cooling fans
- Starter motor 12 volt and 24 volt
- Alternator 12 volt and 24 volt
- ESOS (Electric shut-off solenoid)
- Lub oil pressure switch
- Coolant temperature switch
- SAE A PTO
- Cold start to  $-20^{\circ}\text{C}$  (aided)
- High and low fan position
- Electronic controlled governing as an option

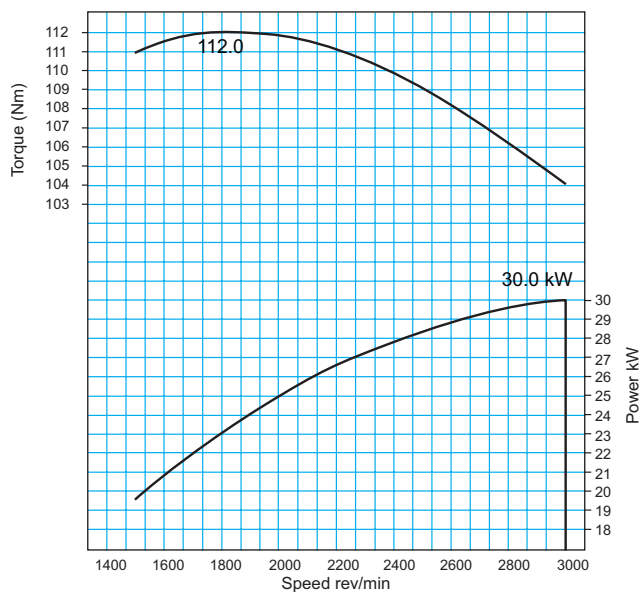
## Option groups

A selection of optional items is available to enable you to prepare a specification precisely matched to your needs.

## Emissions statement

**Industrial and IOPU Engines:** Certified against the requirements of EU Stage IIIA (Directives 97/68/EC as last amended, and 2004/26/EC, as last amended).

**Constant Speed engines for use in Industrial, IOPU and ElectropaK applications:** Certified against the requirements of EU Stage IIIA (Directive 97/68/EC, as last amended for mobile applications).



## Engine data

Number of cylinders .....	3 in-line
Bore and stroke.....	84 x 90 mm (3.3 x 3.5 in)
Displacement .....	1.496 litres (91 in <sup>3</sup> )
Aspiration .....	Turbocharged
Cycle.....	4 stroke
Combustion system.....	Indirect injection
Compression ratio .....	22.5:1
Rotation.....	Anti-clockwise viewed on flywheel
Cooling system.....	Liquid
Total lubrication capacity.....	6 litres (1.6 US gals)
Total coolant capacity .....	2.6 litres (0.7 US gals)
<b>Dimensions</b>	
Length .....	572 mm (22.5 in)
Width.....	541 mm (21.3 in)
Height.....	643 mm (25.3 in)
Dry weight .....	156.5 kg (345 lb)
Final weight and dimensions will depend on completed specification.	

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