

400 Series 402D-05 Industrial

10.2 kW / 13.7 hp @ 3600 rpm

The Perkins® 400D range has been developed in consultation with our marketplace. This 0.5 litre, 2 cylinder engine is the smallest engine offered by Perkins, however, this ultra-compact, lightweight power unit still maintains all the customer benefits experienced from this exciting product 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.

The 400D range of engines has been designed to fully comply with stringent EU emissions regulations, providing an emissions compliant power solution for the future.

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 402D-05 is a 2 cylinder 0.5 litre unit which delivers impressive performance, with low operating costs in an ultra compact, efficient package ideally suited to a wide range of small off-highway applications.



Ultra-compact power

- Up to 10.2 kW (13.7 hp) from an engine envelope of 0.07 cubic metres
- Easy installation even in the smallest of machines

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 (advanced) governor, valve seat inserts and new compliance testing deliver 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

Discover more

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www.perkins.com/esc

www.perkins.com/distributor
to find your local distributor

Performance Data	Gross Intermittent (ISO/TR 14396)	Speed rpm
Power Output (kW)	10.2	3600
Power Output (hp)	13.7	3600
Peak Torque (Nm)	29.7	2400
Peak Torque (lbf-ft)	21.9	2400

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

*Subject to conformance with ASTM D6751 and EN14214.

Photographs are for illustrative purposes only and may not reflect final specification.

All information in this document is substantially correct at time of printing and may be altered subsequently.

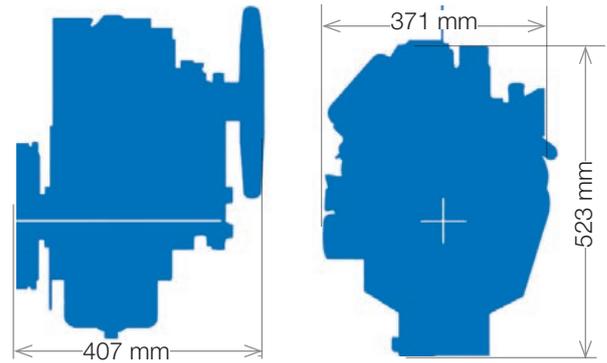
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

400 Series 402D-05 Industrial

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Engine specification

- Cast iron engine block
- Flywheel and flywheel housing
- 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
- Closed circuit breather
- Coolant pump belt driven
- Starter motor 12 volt
- Alternator 12 volt 14 amp
- ESOS (Electric shut-off solenoid)
- Lub oil pressure switch
- Coolant temperature switch
- Choice of coolant fans
- Cold start capability to -20°C (aided)
- Gradeability 35° continuous

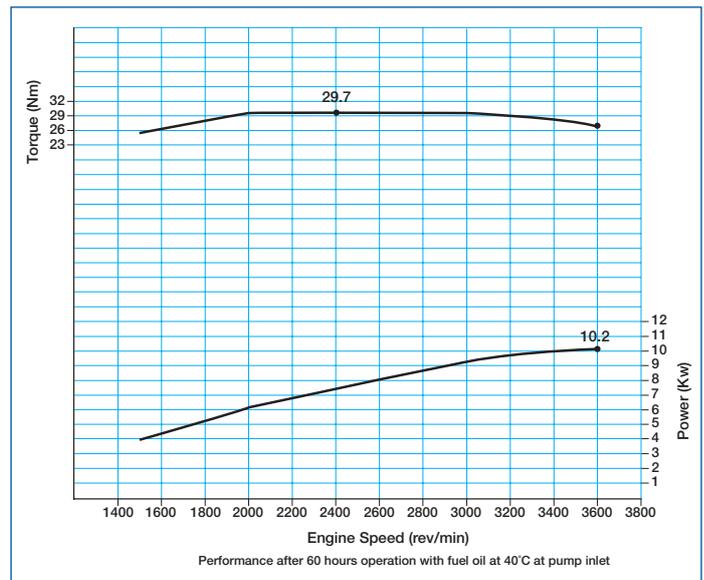
Option groups

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	2 in-line
Bore and stroke	67 x 72 mm (2.6 x 2.8 in)
Displacement	0.51 litres (31 cubic in)
Aspiration	Naturally aspirated
Cycle	4 stroke
Combustion system	Indirect injection
Compression ratio	23.5:1
Rotation	Counter-clockwise viewed on flywheel
Cooling system	Liquid
Total lube system capacity	2.01 litres (0.5 US gals)
Total coolant capacity	1.1 litres (0.3 US gals)
Dimensions	
Length	407 mm (16.0 in)
Width	371 mm (14.6 in)
Height	523 mm (20.6 in)
Dry weight	57 kg (126 lb)
Final weight and dimensions will depend on completed specification.	

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Perkins Engines Company Limited

Peterborough PE1 5FQ
 United Kingdom
 Telephone +44 (0)1733 583000
 Fax +44 (0)1733 582240
www.perkins.com



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