

1100 Series 1106C/D-70TA Industrial

129-162 kW / (172 bhp-217 bhp) 1106C-70TA

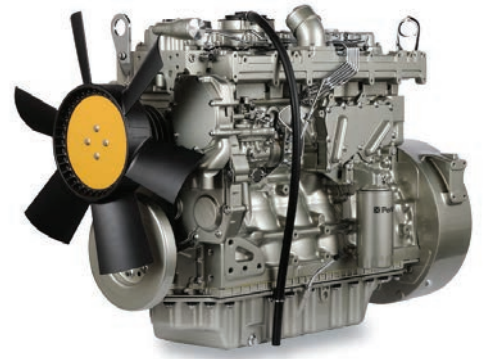
112-129 kW / (150 bhp-172 bhp) 1106D-70TA

The 1106C and 1106D provide a common solution to meeting the EU Stage II/IIIA and U.S. EPA Tier 2/3 emissions regulations, providing a choice solutions from the Perkins® 1100 Series diesel engine platform.

These clean engines are assembled around optimal, efficient manufacturing processes with state-of-the-art technology. They are built to provide the exact power solution for customers who sell their applications into lesser regulated countries.

The new engines boast considerable increases to delivered power, torque and noise reduction. These have been achieved through changes to the manifold and combustion areas, turbocharger geometry, increased cylinder displacement.

Focusing on our common platform theme, changes to engine envelope dimensions and connection points have been kept to a minimum.



Powered by your needs

- The Perkins 1106C-70TA delivers up to 162 kW (217 bhp) and the 1106D-70TA delivers up to 129 kW (172 bhp) and over 750 Nm (553 lb-ft) of torque, providing greater productivity through an improved power to weight ratio
- The availability of a large range of build options enables the product to be tailored to specific customer needs. Options include an SAE B PTO, providing up to 63 kW (85 bhp)

Worldwide power solution

- The 1106C and D have been designed to be worldwide fuel tolerant, including kerosene, jet aviation fuel and 20% biofuel (RME). Options are available to meet local market needs

Low installation costs

- The 1106C and D are part of the Perkins common platform of engines, maintaining a variety of hook-up points similar to the EU Stage IIIB and U.S. EPA Tier 4 Interim 1206E-E70TTA. This commonality reduces the cost impact for the customer during the changeover process

Low operating costs

- Service intervals are set at 500 hours as standard
- Perkins provides comprehensive warranty cover for two years (up to 3,000 hours), with three years on major engine components
- A low usage warranty package is also available

Long term power solution

- The 1106 range has been designed to fully comply with stringent emissions regulations, 1106C to EU Stage II/U.S. EPA Tier 2 and 1106D to EU Stage IIIA/U.S. EPA Tier 3, providing an emissions compliant power solution for the future. World class product support
- 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 finger tips, covering technical information, parts identification and ordering systems, all dedicated to maximising the productivity of your engine
- Perkins actively pursues product support excellence by insisting our distribution network invest in their territory to provide you with a consistent quality of support across the globe
- Throughout the entire life of a Perkins engine, we provide access to genuine OE specification parts giving 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

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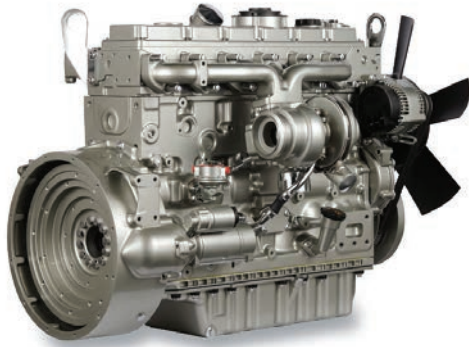
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 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

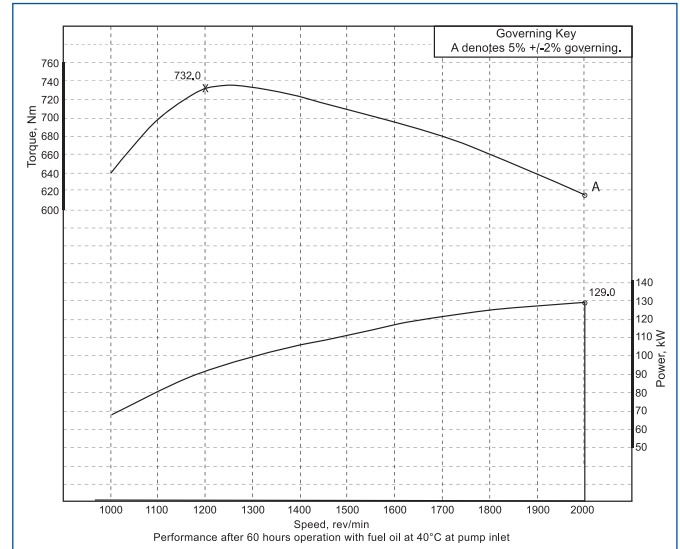
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Engine specification

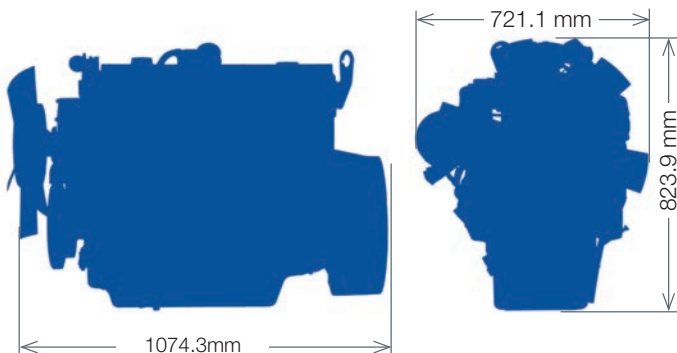
- Engine ratings
- SAE B PTO Drive
- Timing case and gear driven auxiliaries
- Flywheel housings
- Flywheel and starter rings
- Oil filter positions
- Adapter plates
- Starter motors
- Fan drives and locations
- Sound isolated lubricating oil sumps
- Lubricating oil filters and breathers
- Front-end drives
- Alternators
- Belt driven auxiliaries
- Induction manifolds
- Exhaust manifolds
- Fuel filter positions
- Cold start aids
- Engine mountings
- Power and torque curve tailoring
- Cooling packs
- Control panel
- Air compressor



Engine Emissions Standard	Power		Torque		Rating Type
	kW (bhp)	Speed rpm	Nm (lb-ft)	Speed rpm	
1106C EU Stage II, U.S. EPA Tier 2	112 (150)	1950	687 (506)	1200	C
	129 (172)	2000	733 (540)	1400	C
	137 (183)	2200	725 (534)	1400	C
	145 (194)	2200	775 (571)	1400	C
1106D EU Stage III, U.S. EPA Tier 3	112 (150)	1800	721 (531)	1000	C
	112 (150)	2200	672 (495)	1100	C
	118 (158)	2000	692 (510)	1200	C
	129 (172)	2000	750 (552)	1300	C

Engine data

Number of cylinders Vertical in-line 6 cylinder
 Bore and stroke 105 x 135 mm (4.13 x 5.3 in)
 Displacement 7.01 litres (427.7 cubic in)
 Aspiration Turbocharged aftercooled
 Cycle 4 stroke
 Combustion system Direct injection
 Compression ratio 18.2
 Engine rotation Anti-clockwise viewed on flywheel
 Cooling system Liquid
 Total lubrication capacity 13-16 litres (3.4-4.2 US gal)
 Total coolant capacity 15.2 litres (4 US gal)
 Dimensions with side-mounted turbocharger:
 Length 1074.3 mm (42.3 in)
 Width 721.1 mm (28.3 in)
 Height 823.9 mm (32.4 in)
 Dry weight 704 kg (1551 lbs)
 Final weight and dimensions will depend on completed specification



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