

1100 Series 1104D-44T Diesel Engine – Industrial Open Power Unit

74.5 kW / 99.9 hp

The 1104D-44T IOPU is a new addition to the 1100 Series range of IOPU engines. These ultra clean engines are assembled on a new high technology production line. Frequent computerized checks during the production process ensure high build quality is maintained throughout.

The 1104D IOPU range of engines have a complete fuel system, air cleaner and radiator fitted as standard along with a choice of mechanical or electronic control system making these the ultimate power solution.

The 1100D range with their wide choice of build options, plus all the features and benefits, present a secure future for all our customers at Tier 3/Stage IIIA emissions legislation, and is the platform on which the long-term solution to Tier 4/Stage IIIB legislation will be built.



Emissions

Engines certified to U.S. EPA Tier 3 and European EU Stage IIIA emissions legislation.

Specification		
Number of cylinders	4 in-line	
Bore and stroke	105 x 127 mm	4.1 x 5.0 in
Displacement	4.4 litres	269 in ³
Aspiration	Turbocharged	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	18:2	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity	8.4 litres	2.2 US gal
Cooling system	Liquid	
Total coolant capacity	15 litres	4.0 US gal

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THE HEART OF EVERY GREAT MACHINE

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Features and benefits

Powered by your needs

- The 1104D-44T IOPU offers a choice of build configurations to match the power needs of customers for a diverse range of applications

State of the art design

- The 1104D utilises the latest diesel mechanical controlled fuel system technology. This allows the 1104D-44T to deliver high power density and excellent fuel economy with low exhaust emissions and minimum heat rejection

Reduced noise

- Noise minimised at source – engine sound levels have been reduced by 2 dBA
- Reduction in noise suppression costs

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

- Virtually identical hook-up points and envelope size as the 1104C-44TA
- Customer enjoys a seamless transition during the emissions changeover process

Lower operating costs

- The 1104D maintains Tier 2/Stage II fuel economy, allowing customers to keep existing fuel tanks
- Service intervals are 500 hours standard
- **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: www.perkins.esc

- Low usage warranty package is also available

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

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Technical information

Air inlet

- Mounted air filter and turbocharger

Cooling system

- Fan (pusher or puller)
- Fan drive
- Radiator
- Water pump

Electrical equipment

- Alternator (12 or 24 volt)
- Starter motor (12 or 24 volt)

Flywheel and housing

- Flywheel
- SAE 3 flywheel housing

Fuel system

- Fuel filter

Lubrication system

- Oil cooler and filter
- Timing case oil filler

Mountings

- Engine mounting brackets

PTO

- SAE A or SAE B front PTO (142/280 Nm)

Starting aids

- Glow plugs

Literature

- User's Handbook

Option groups

The 1104D-44T IOPU offers a wide choice of standard build specifications to meet specific customer needs:

- 12 or 24 volt alternator
- Pusher or puller fan
- SAE A or SAE B front PTO (142/280 Nm)
SAE B provides 63 kW/85 bhp
- Air compression

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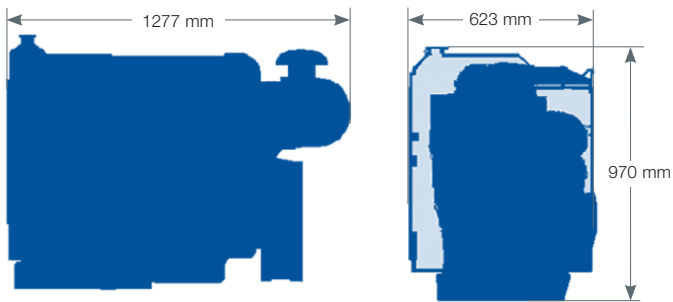
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Engine package weights and dimensions

Engine package weights and dimensions		
Length	1277 mm	50.2 in
Width	623 mm	24.5 in
Height	970 mm	38.0 in
Weight (dry)	536 kg	1181.6 lb

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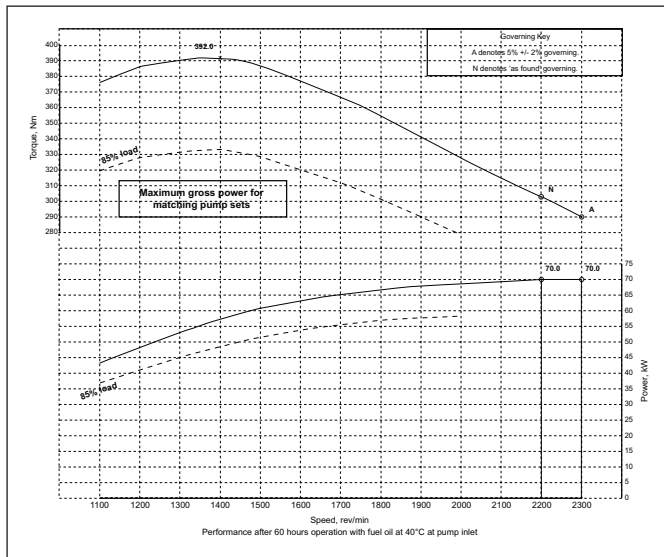
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Engine performance	Net intermittent	Speed rpm	Pump sets	Speed rpm
Max power (kW)	74.5	2200	56.1	2000
Max power (hp)	99.9	2200	75.2	2000
Max torque (Nm)	392.0	1400	333.2	1400
Max torque (lbf-ft)	289.1	1400	245.8	1400

Power for a run-in engine after 60 hours

Net Intermittent = Intermittent service where maximum power and/or are, cyclic (time at full load not to exceed 50%)

Rating standard ISO/TR 14396

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