

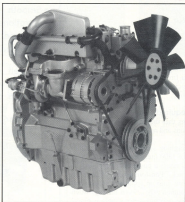
Perkins 1004-4TW 82 kw 2200 Rpm
Perkins 1104-4TW designed to give extra power/torque
for six-cylinder performance from four cylinders

A new version of Perkins' 1000 Series diesel engines, the 1004-4TW, was introduced at Intermat, the Paris-based international construction show.

The turbocharged, water-to-air intercooled, 1004-4TW is rated at a maximum 82 kW at 2200 r/min. It develops a maximum torque of 416 Nm at 1400 r/min.

The interesting development on this model of the 1000 Series is a wastegated turbocharger to provide extra power and torque throughout the speed range. As one Perkins engineer puts it: "The customer can get a six-cylinder performance from a four-cylinder engine. The unit is excellent for combine harvesters and other agricultural and earthmoving equipment."

The new power unit has been taken up by Åkerman, the excavator division of Swedish earthmoving equipment manufacturer, VME. It will power four new machines in the 13- and 15-tonne class and it is also at the heart of JCB's latest articulated wheeled shovel loader.



The new Perkins turbo/intercooled, wastegated 1004-4TW diesel engine is rated 82 kW maximum at 2200 r/min; maximum torque is 416 Nm at 1400 r/min.

for fast digging movements and one pump for the swing.

In conjunction with new valve spools, the hydraulic system is de-

intended to fully utilize engine output, while protecting against overloading. This means that when the swing is not used, all engine power is available for

1006-G

Perkins

88kW 133hp/134.5PS

Perkins was naturally selected by Volvo for use in excavators, handling equipment, generators, forklifts, loaders and mobile cranes.

Excavator Power (88kW) is one of the most powerful and productive in its class. Its top performance, quiet engine and superior emissions rating make it a leader.

FLEXIBLE POWER

- Flexible high manufacturing standards meet the highest quality standards for emissions, noise and safety.

- Excellent cooling efficiency automatically adjusts to the job when your performance demands it.

- Excellent operation in cold weather conditions using premium technologies.

DURABLE POWER

- Long-life for life's demands. A reinforced cylinder, strengthened crankshaft, and the steel-lined cylinder bore are great for the extra torque demands of demanding jobs. A reinforced crankshaft is also available.

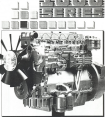
HIGH PERFORMANCE, PRODUCTIVE POWER

- Increased productivity with low emissions. Fuel is controlled by the latest, precision-controlled system with high specification fuel injection systems.

- Fuel saving low oil capacity helps you work without refueling often.

ECONOMICAL POWER

- An 8% improvement in fuel economy means lower operating costs. A low maintenance interval helps reduce your total cost of ownership.



EASY LOW COST MAINTENANCE

- Improved serviceability. All major parts are easy to reach.

- Easy, low cost scheduled maintenance. Maintenance is made easy by the convenient, standardized service points for easy access.

- Improved operability and safety. Service points are clearly marked, service is made easy by the standardized, simple and commonly understood approach.

DIRTY-CLEAN POWER

- Improved cleanliness. Easy-to-reach service points, visibility and low emissions, combined with the Superior Performance System, help the operator clean, healthy and productive.

1006-6

Agricultural/Industrial Power Unit



GENERAL DATA

Model: 1006-6 (2000 RPM) and 1006-6 (2400 RPM)
No. of cylinders: 6
Cylinder arrangement: 6-cylinder in-line

Rated Power: 15 kW (20 HP)
Rated Speed: 2000 RPM

Rated Torque: 170 kgm (1670 Nm)
Rated Fuel Consumption: 16.5 l/h

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1000 SERIES



PERKINS POWER

Subcompact 1000 Series Perkins industrial and agricultural engines provide you with the best power, performance and value. In fact, a 1000 Series Perkins engine is the most powerful and reliable in its class. Perkins engines are built to last, and are backed by the world's best service network.

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Perkins

Perkins Engine (Europe) Limited
Cotton Road, Weybridge, Surrey TW20 9BN, England
Tel: 0181 8738 2000



PERKINS
POWER

PERKINS ENGINE (EUROPE) LIMITED
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TEL: 0181 8738 2000

1006-6T

Perkins

123kW 165bhp 187PS

A new turbocharged 6-cylinder diesel for generators, excavators, industrial compressors, agricultural and industrial equipment.

Based on Perkins' 60 year experience in the development and production of engines, the engine specifications ensure stable low operation and high performance with longest service life.

RELIABLE POWER

- ▶ **Proven high manufacturing standards** - new components made to the highest standards for reliability in operation.
- ▶ **Wide operating capabilities** - designed to give three speed operation for better fuel economy.
- ▶ **Low temperature operation** - by using exhaust gas and turbochargers that heat intake, giving protection with longest service life.

DURABLE POWER

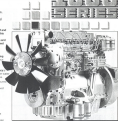
- ▶ **A long service life** is assured by the use of the highest quality materials throughout engine, bearing, flywheel, crank, etc.
- ▶ **Overbuilt for extra long service life** - by using extra large bearings, a commercially long service life engine, long service life pistons.
- ▶ **Extensive testing** - all engines tested under all operating conditions and temperatures of use.

HIGH PERFORMANCE, PRODUCTIVE POWER

- ▶ **Good power to weight and torque to displacement** - the engine has a high power to weight ratio.
- ▶ **Low operating costs** - low fuel consumption, low oil consumption, low maintenance costs.
- ▶ **Low noise levels** - low noise levels, low vibration.

ECONOMICAL POWER

- ▶ **Wide range of fuel** - running on low sulphur diesel, kerosene, or a mixture of the two. (Check Perkins' specifications).



EASY LOW COST MAINTENANCE

- ▶ **Lowest maintenance** - 400 hours oil change interval.
- ▶ **Wide range of accessories** - maintenance free components.
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QUIET CLEAN POWER

Perkins is **ISO 9000**

Perkins is ISO 9000 certified, ensuring the highest quality standards in the world. For more information, contact your local Perkins distributor.

1006-6T

Agricultural/Industrial Power Unit



GENERAL DATA

Application and model: Agricultural/Industrial power unit, 1006-6T
Cylinder arrangement: 6-cylinder
Cylinder bore: 100 mm (3.94 in.)
Stroke: 110 mm (4.33 in.)

Maximum Crankshaft speed: 2400 rpm (15000 rev/min)
Maximum torque: 100 Nm (73.7 lb-ft)
Maximum power: 110 kW (149 hp) @ 2100 rpm

Rated power: 75 kW (102 hp) @ 1800 rpm

Rated torque: 75 Nm (55.1 lb-ft) @ 1800 rpm

Rated speed: 1800 rpm (10800 rev/min)

Rated fuel consumption: 35 kg/h (77.1 lb/h)

Rated air flow: 15 m³/min (530 cfm)

Rated oil consumption: 1.5 kg/h (3.3 lb/h)

Rated water consumption: 1.5 kg/h (3.3 lb/h)

Rated exhaust emission: 1.5 kg/h (3.3 lb/h)

Rated noise level: 100 dB(A) @ 1m

Rated vibration level: 1.5 ms⁻² r.m.s. @ 1m

Rated weight: 1000 kg (2205 lb)

Rated dimensions: 1000 mm (39.4 in.) x 1000 mm (39.4 in.) x 1000 mm (39.4 in.)

PERKINS SERIES



PERKINS POWER

Introducing the 1006 Series, Perkins industrial/agricultural engine range extending to 1000 hp, efficient, sophisticated power units offering performance, reliability, flexibility and ease of maintenance. Efficient operation, heavy-duty components, advanced systems, proven performance, low noise, performance & maintenance free operation.

Perkins has a complete distribution network with over 6,000 sales centres. Performance and power series are made for you and your power needs.



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Perkins (USA) Inc.

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