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# 1000 Series

## Agricultural/Industrial Power Units

### 1006-6T

#### 119 kW/159 bhp

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

Based on Perkins' 60 years' experience in the development and production of diesel engines, this premium specification engine ensures trouble free operation and high performance in the toughest conditions.

#### Reliable power

Perkins' high manufacturing standards are approved to ISO 9000. Maximum cooling efficiency is provided by the gear driven water pump and independent fan drive. Leak free operation is ensured by Viton crankshaft seals and controlled swell joints, giving protection in the toughest conditions.

#### Durable power

A long, trouble free life is assured by the use of the highest quality components throughout the engine, from the deep skirted cylinder block, designed with the aid of computer technology, to premium quality, 3-ring controlled expansion pistons. Enhanced engine life with inserted valve seats, oil spray cooled pistons, and integral plate oil cooler.

#### High performance, productive power

Good power to weight with high torque and 31% torque back up made possible by Quadram direct injection combustion system matched to high specification turbocharger. At 96 dBA the 1006-6T is probably the quietest engine in its class.

#### Economical power

An 8% improvement in fuel economy – a direct result of the unique Quadram combustion system.

#### Easy low cost maintenance

Service intervals to 400 hours for oil and filters. Quick, easy and economical maintenance is made possible by the convenient positioning of service points, for easy accessibility. Improved parts availability and reduced inventory costs are achieved by the true family concept of the 1000 Series, giving parts commonality across the engine range.

#### Quiet, clean power

Operator and environmentally friendly with low noise, rapid startability and low emissions, achieved with the Quadram and high specification fuel injection equipment.

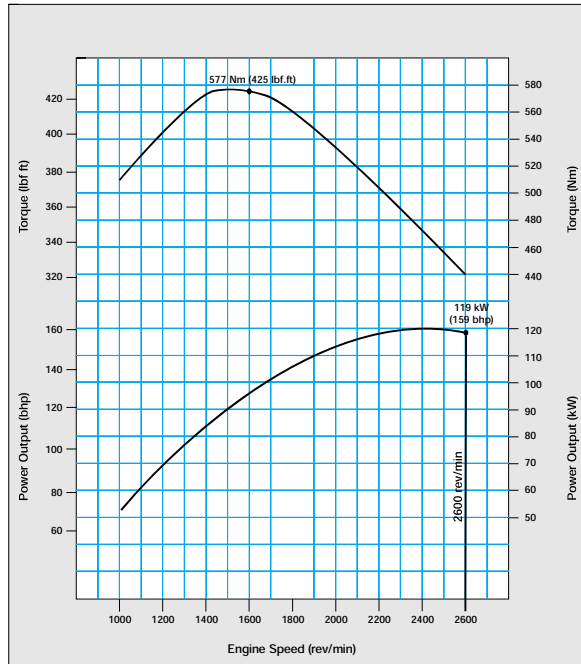
Performance Data	Gross Intermittent*	Speed rev/min	Net Intermittent	Speed rev/min
Power Output (kW)	119	2600	107	2600
Power Output (bhp)	159	2600	143.5	2600
Peak Torque (Nm)	577	1600	516	1600
Peak Torque (lbf ft)	425	1600	380	1600

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

\*Rating Standard ISO (TR) 14396

Photographs are for illustrative purposes only and may not reflect final specifications

# 1000 Series 1006-6T



Note: Lower speed ratings may not be read from this curve.  
Other ratings are available, please consult your Perkins representative.

## Engine Specification

Cast iron engine block  
Flywheel and flywheel housing  
Rotary fuel injection pump  
Fuel filter and prefilter  
All-speed mechanical governor  
Low inertia injectors  
Turbocharger  
Inlet manifold  
Cast iron exhaust manifold – centre outlet  
Lub. oil sump  
Spin on oil filter and oil cooler  
12V/24V starter and alternator  
Choice of cooling fans belt driven  
Gear driven coolant pump  
Lub. oil pressure switch  
Cold start aid



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All information in this leaflet is substantially correct at the time of printing but may be changed subsequently by the Company



## Option Groups

A selection of optional items is available to enable the customer to make up a specification precisely matched to his needs. These include alternative ratings, inlet manifolds, exhaust outlets, a range of flywheels and flywheel housings to suit various clutches and transmissions and a selection of power take-offs.

## General Data

<b>Bore and stroke</b>	100 mm x 127 mm (3.937 in x 5.00 in)
<b>Number of cylinders</b>	6 in-line
<b>Cubic capacity</b>	6.0 litres (365.0 cu.in.)
<b>Cycle</b>	4 stroke
<b>Aspiration</b>	Turbocharged
<b>Combustion system</b>	Quadram direct injection
<b>Compression ratio</b>	16:1
<b>Firing order</b>	1.5.3.6.2.4
<b>Rotation</b>	Anti-clockwise, viewed on flywheel
<b>Cooling</b>	Liquid
<b>Length</b>	933.9 mm (36.8 in)
<b>Width</b>	683 mm (26.9 in)
<b>Height</b>	783 mm (30.8 in)
<b>Dry Weight</b>	419 kg (922 lb)

Overall dimensions and weight will depend on final specification

