

1200 Series 1204J-E44TTA Industrial Open Power Unit

EU Stage V/U.S. EPA Tier 4 Final

117-129 kW/157-172 hp @ 2200 rpm

139.8 kW/187 hp @ 2000 rpm

The Perkins 1204J, the 4 cylinder option for the 1200 Series, gives you a complete power solution that meets the latest EU Stage V/U.S. EPA Tier 4 Final emission standards. The choice of options, engine configurations and robust technology allows you to integrate the 1204 range into your equipment with minimum re-engineering.

The innovative, compact and flexible design of the Perkins 1200 Series means it can be found in more than 800 different models of equipment.



Stage V/EPA Tier 4 Final emission standards.

Power rating		
Minimum power @ 2200 rpm	117 kW	157 hp
Maximum power @ 2200 rpm	129 kW	172 hp
Maximum power @ 2000 rpm	140 kW	187 hp
Maximum torque	815 Nm @ 1400 rpm	601 lb-ft 1400 rpm
Specification		
Number of cylinders	4 in-line	
Bore and stroke	105 x 127 mm	4.13 x 5 in
Displacement	4.4 litres	268.5 in ³
Aspiration	Series turbocharged aftercooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	16.5:1	
Rotation	Anti-clockwise, viewed on flywheel	
Total lubricating capacity (unbalanced/balanced)	12.1/10.6 litres	3.19/2.8 US gal
Cooling system	Liquid	
Total coolant capacity	18.3 litres	4.84 US gal

Engine dimensions		
Length (including fuel cooler)	1450 mm	57.1 in
Width	869 mm	34.2 in
Height (including aftertreatment)	1344 mm	52.9 in
Weight (dry)	707 kg	1559 lb
Aftertreatment dimensions		
Length	682 mm	26.8 in
Width	609 mm	24 in
Height	452 mm	17.8 in
Weight	65 kg	143 lb

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THE HEART OF EVERY GREAT MACHINE

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Features and benefits

A lifetime of low cost

We have designed the Perkins 1204 range with optimised fuel consumption in mind, matching it to the operating cycles of a wide range of equipment and applications.

Low cost maintenance is achieved through hydraulic tappets, multi-vee belts, service free aftertreatment and 500 hour oil change intervals.

In addition, on the 1204J industrial engine, many service items can be located on either side of the engine to give you maximum access for servicing.

Easy to switch

The 1204 range features core technologies to support your move from Stage IIIB/Tier 4 Interim to Stage V/Tier 4 Final. Like you, we believe there is no need for a trade-off between meeting emission standards and delivering on performance. The 1200 Series tackles the emissions challenge head-on and gives you improved productivity levels and fuel consumption compared to the previous generation Stage IV/Tier 4 Final engines.

Ideal for downsizing

High power density, combined with excellent torque in the 1204 range allows you to select a more compact engine where previously you might have used an engine of a higher cubic capacity. This downsizing has several benefits, including saving you money and providing more space to package aftertreatment units.

Tailored for your machines

Your needs are our top priority, which is why we provide more tailored technology for OEMs than anyone else.

Working closely with OEMs, we have developed the 1204 range with hundreds of variables so that it easily fits into your machine.

Our 1204 range engines come with two year warranties as standard and can also be supported by extended service contracts.

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Technical information

Aftertreatment technology

- DOC – Diesel Oxidation Catalyst
- DPF – Diesel Particulate Filter option available
- SCR – Selective Catalytic Reduction
- SCR Auxiliaries – A range of tanks and heated lines are available

Air inlet

- Standard air cleaners

Control system

- Full electronic control system
- All connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and J1939 standard communications I/O

Cooling system

- Engine mounted radiator with top tank temperature of 112°C
- 50:50 water glycol mix
- Detailed guidance on cooling system design and validation available to ensure machine reliability

Standard emissions control equipment

- NRS – NOx Reduction System

Flywheels and flywheel housing

- SAE3 configuration as standard

Fuel system

- Electronic high pressure common rail
- Standard and heavy duty fuel filtration

Oil system

- Choice of sumps for different applications

Power take-off

- SAE A or SAE B flanges on left-hand side, additional SAE A flange available on front of the engine on some applications

General

- Balancer option available
- Pusher or puller fan options

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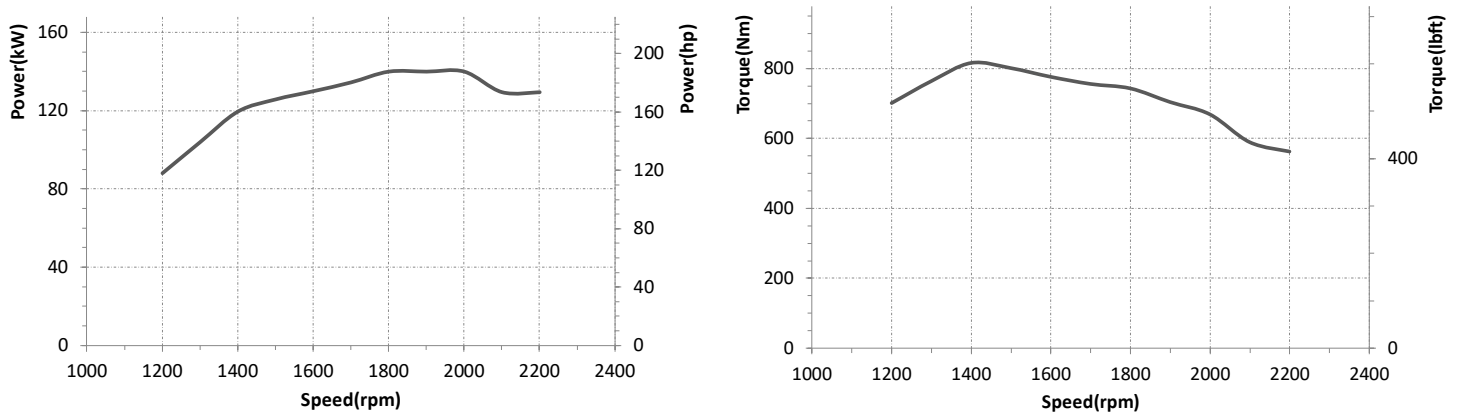
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Speed rpm	Power kW	Power hp	Speed rpm	Torque Nm	Torque lb-ft	Rating type
2200	117	157	1400	710	523	C
2200	129.4	173	1400	750	553	C
2000	139.9	187	1400	815	601	C

Rating Standard ISO 14396:2002
 Unless otherwise specified, all stated data is for maximum rated speed and 100% load

Rating definitions and conditions

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Rating Conditions for Diesel Engines – up to 7.1 litres are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapour pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).