

engineered
to fit your
strategy

1.7 and 2.2 litre
diesel engines



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Publication No. PN3151EN/03/21

 Perkins®

THE HEART OF EVERY GREAT MACHINE



Perkins Engines
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An expanded
compact
engine offering

Perkins®
SYNCRO

1.7 and 2.2 litre



 Perkins®

THE HEART OF EVERY GREAT MACHINE

Introducing the 1.7 and 2.2 litre engines as part of the Perkins® Syncro range

For many years, our trusted 400 Series has been the platform of choice for over a million off-highway machines worldwide. Now part of the Perkins® Syncro range, our 1.7 and 2.2 litre engines have been re-engineered to deliver a high-performance, high-value powertrain solution that supports your business ambitions.

By extending our global compact engine offering, which already includes the 2.8 and 3.6 litre engines, the 1.7 and 2.2 litre engines now provide even greater choice and flexibility for compact machine development, helping you to take advantage of growth market opportunities.

Both engine models also include various features, such as an electronic fuel system and a wide variety of installation options, that integrate with your next generation machine designs.

A global provider

Perkins offers comprehensive assistance at every step of the machine development process, ranging from technical integration workshops and prototype solutions through to fully validated, tailored hardware. We also provide global support for your supply chain and dedicated services built around your needs.

Global offering

Solution optimised for US and European markets, with high levels of commonality with lesser regulated territories offering.

Re-engineered for next generation machines



Compact size

Evolving from a range that has powered hundreds of the most compact machines, the 1.7 and 2.2 litre engines have been engineered for simple installation in even the most space constrained designs.



Proven reliability

Individually tested through our stringent in-house validation programmes, the robust 1.7 and 2.2 litre engines provide consistent performance in the toughest environments, including extreme altitudes and temperatures.



Fully supported

We understand that aftersales is vital to maintain the loyalty of your customers. We provide a flexible, dedicated support service and product features such as service-free aftertreatment to minimise maintenance costs.



Exceptional performance

With low-noise characteristics, you can achieve a comfortable operator experience without the need for additional (and costly) machine engineering. In addition, the engines' low fuel consumption greatly reduces operating costs.



Trusted technology

With a core product and technologies proven countless times in the field, you can be sure of minimum downtime for your machine owner. Robust aftertreatment systems eliminate the need for operator interaction.



Engine	1.7 litre	2.2 litre	2.2 litre
Cylinders	3	4	4
Emissions	EU Stage V U.S. EPA & CARB Tier 4 Final*	EU Stage V U.S. EPA & CARB Tier 4 Final*	EU Stage V U.S. EPA & CARB Tier 4 Final*
Aspiration	Turbocharged	Turbocharged	Turbocharged aftercooled
Power	Upto 36 kW (48 hp)	Upto 45 kW (60 hp)	Upto 55 kW (74 hp)
Maximum torque	166 Nm	222 Nm	270 Nm
Rated speed	2800 rpm	2800 rpm	2800 rpm
Aftertreatment	DOC+DPF	DOC+DPF	DOC+DPF

* DOC only version available for U.S. EPA Tier 4 Final market