



# The power behind your EU Stage V machine

*With you at every stage.*

[perkins.com/stagev](http://perkins.com/stagev)

*Together, we power ahead.*

 **Perkins®**

# EU Stage V and beyond.

EU Stage V is the latest emission standard in Europe for off-highway diesel and mobile electric power engines across the full power range for industrial and electric power applications. And with our long history of powering OEM equipment for the rental industry, Perkins is uniquely placed to support rental operators in upgrading to Stage V equipment.

With us, you get an expert off-highway partner with extensive experience of the best Stage V technologies. Our latest generation of engines is designed to boost your business profits – and meet your customers' demands for value, reliability, and performance.

Perkins Stage V technologies help you meet your emissions responsibilities while also having a positive impact on the engine's power, torque, reliability, and durability.

## **Drive down your costs**

Engines across the range have been designed with OEMs' profitability in mind. With rising costs a concern for OEMs, Perkins turns the tables. Our Stage V engines offer industry-leading power density and are quick and simple for your engineers to install, saving you time and money at every stage.

The Perkins Stage V engine range also reduces OEM costs through efficient packaging and integration. Engine mounted aftertreatment as well as factory-delivered power units that are ready for you to 'plug and play' add up to minimal engineering for OEMs.

***Perkins EU Stage V engines not only meet your strict emission demands, but they provide the power to grow your sales and enjoy a more profitable future.***

## **Perkins value**

With Perkins, you can meet all Stage V emission standards while producing a new generation of machines that match customer demands for value, innovation, and performance.

Perkins offers value beyond the diesel engines it supplies. By collaborating at every phase of the value chain, from concept and integration to validation and aftermarket support, the Perkins Customer Machine Engineering Team (CMET) are ready to assist you with your machine design and installation.

Customers can also benefit from our Technical Integration Workshop (TIW) programme. A unique collaborative concept developed by Perkins that sees our experts work side by side with OEMs to make engine integration more effective.

The Perkins value proposition is summarised below:

## **EXPLORE**

Perkins relentlessly challenges the status quo by diving deep to understand power problems and discover solutions that unlock opportunities to push past what's possible today.

## **CONNECT**

Perkins attracts and inspires the world's most talented employees and connects them to customers and the network of people who need them now.

## **INVENT**

Perkins designs, builds, launches, and optimises power products, service technologies and systems that solve complex technical, operational, and environmental problems.



### Integration

You need the right engine footprint and performance for each application, which is why with us it's never 'one size fits all'. Through our Technology Integration Workshops (TIWs) and our Customer Machine Engineering Team (CMET), we can work with you to explore your strategies and align specifications to your requirements.



### Validation

Perkins never compromises on quality and you can be sure that every component has been manufactured and tested to the highest standards. Furthermore, our engine validation covers everything from virtual simulations to extreme real-world durability testing in some of the toughest conditions.



### Flexibility

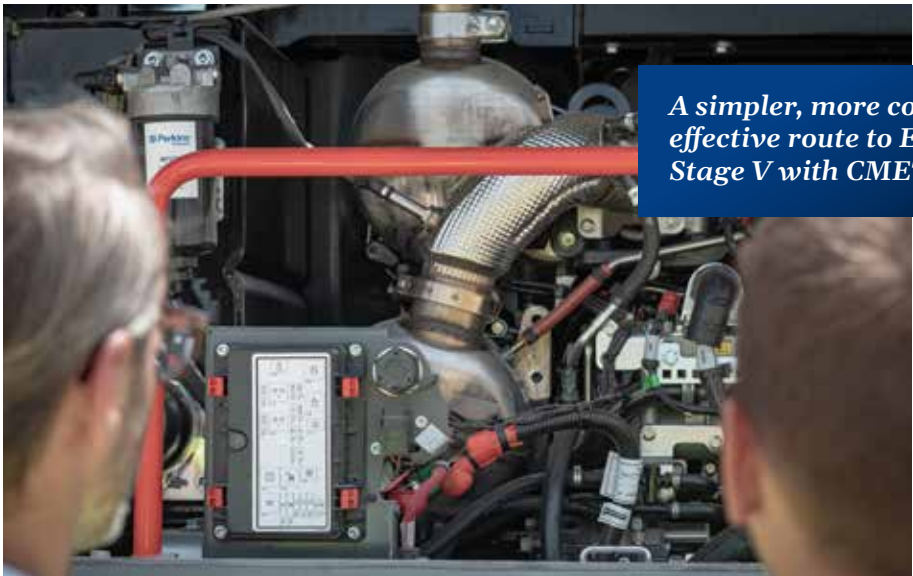
No two OEMs are the same, and neither are your machines.

As off-highway specialists, we bring the knowledge and platform versatility you need to tailor our engines to your applications. Our modular engine concept also gives you a broad variety of options with a high degree of customisation, while driving down costs.



### Aftermarket

Whether you want an engine, genuine part, approved service or technician guidance, our highly skilled team will provide you with dedicated support. We also offer a range of added-value services within Perkins® Hypercare, an adaptable package of aftersales services to enhance the performance and productivity of your engine and give you easy maintenance throughout its service life.



*A simpler, more cost-effective route to EU Stage V with CMET*

# A full range of Stage V engines.

Perkins offers a complete range of Stage V engines from 0.5 litre to 18.1 litre for industrial and electric power applications and set an industry benchmark for being simple, efficient, and reliable.

This means we have the flexibility to meet individual requirements and to ensure you get the value and performance you need from your engine choice. And, through easily scheduled routine maintenance, high levels of validation and advanced aftertreatment technologies with no service requirements, we deliver the results you need to streamline your Stage V transition.

## Five reasons for upgrading to Perkins Stage V engines:

# 1

### **More powerful**

The most significant benefit of the evolution to Stage V technology is the substantially increased power density it delivers (the amount delivered by a particular engine package size). Our Stage V range improves power density and torque over previous generation equivalents.

# 2

### **More economical**

The common rail system significantly improves fuel economy. Combined with selective catalytic reduction systems (which reduces the amount of diesel exhaust fluid in the engine), these technologies will significantly reduce fluid consumption across your entire fleet, with markedly lower operating costs as a result.

# 3

### **More efficient**

The technologies mentioned so far are not entirely new. What is new though is the level of integration and efficiency achieved on this generation of Stage V engines. One example of this is diesel particulate filter (DPF) technology. While early DPFs had a reputation for degrading engine efficiency over time, with millions of hours of engineering and testing in real world applications, our DPF technology allows engine efficiency and duty cycles to be maintained. This offers long term economic benefits for rental operators and their customers.

# 4

### **More profitable**

While the use of Stage V engines is mandatory to meet emission standards in the EU, the Stage V technology package offers significant advantages in power density, fuel efficiency and performance. This means that rental operators can downsize their engines without compromising on power, potentially reducing both capital and operating costs and ultimately, boosting their bottom line.

# 5

### **More compliant**

Stage V emission standards are currently the world's most stringent, however they are similar to U.S. EPA Tier 4 Final standards. For the rental industry, this means a single machine model can be used in North America, Europe and other locations requiring a Stage V engine. This simplifies the logistics of parts and maintenance supply, the distribution of service employee training and can potentially reduce acquisition costs through larger volume purchases of identical machines.

[www.perkins.com/stagev](http://www.perkins.com/stagev)



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