

An aerial photograph of a vast vineyard with rows of green grapevines stretching across a hillside. A tractor is visible in the lower right, spraying a large, white mist over the vines. The sky is clear and blue.

Reliable,  
robust engines for your  
agricultural equipment

 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

# Depend on Perkins from the ground up

Today, intense research into all aspects of farming and agriculture is yielding technologies such as vertical and precision farming. Your equipment calculates everything from how fertile the soil is and how much seed, water and fertilizer farmers need, to the ideal conditions for crop storage. Our engines are equally intelligent, quiet and clean.

Wherever your machine is working, whatever the environment, our comprehensive range of high-performance engines will help you overcome the toughest challenges.

Whenever you need it to push, pull, lift or carry, plough, sow, irrigate or harvest, you will find a Perkins engine ready for the job.

Even before the widespread adoption of mechanisation, Perkins was supplying engines to the agricultural industry. Our long association with some of the world's largest agricultural equipment manufacturers has given us a unique understanding of the power and performance that farmers expect in their equipment.

Today, this close collaboration empowers us to develop some of the best power solutions available, with a 'whole life cost' that competes very well in the market.

The latest generation of our engines continues their predecessors' legacy of robust power and utmost reliability. To this we have added the quiet, clean, fuel-sipping qualities that put a Perkins engine into an estimated 130 different agricultural applications.

Our 2, 3, 4 and 6 cylinder industrial engine range starts from the ultra-compact 400 Series through to the technology-packed 1200 Series. We offer a choice of either mechanical or electronic operation, that will meet your needs and the emissions standards required for your machine.

**Power:** 8 to 240 kW (11 to 320 hp).

**Full specifications:**

Available from your nearest distributor and at [www.perkins.com](http://www.perkins.com)



Since pioneering diesel power for farm machinery in the 1930's, our talented teams have been delivering world-renowned power solutions that you can rely on. When you ask for more .... more power, more performance, more economy, longer life, you can depend on us to deliver.



### Agriculture:

#### a sustainable food chain

Offering you clean, reliable, low-cost power, our tailored technology consistently delivers in a huge range of applications - from small sit-on mowers to the largest tractors and combine harvesters. Whether your equipment is needed to meet the demands of small farm gardens, hundreds of acres of field work or livestock farming, you and your customers will always be able to depend on our engines whatever the season.



### Electric power generation, pumps and sprayers:

delivering power when you need it

#### Electric power generation

For most of us, energy is there - a constant supply whenever we need it. But if the power supply fails, the challenge is to have a clean and efficient alternative energy source on hand that you can rely on. You can rest assured that the range of engines we offer for generator sets will meet your needs, whether you need it to run at prime or standby power.



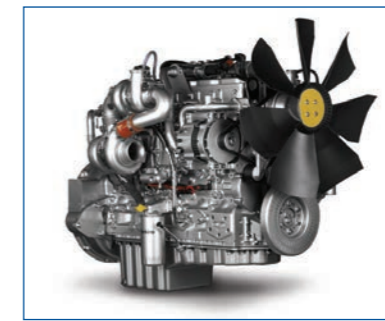
### Pumps and sprayers

To meet the high demand you require for pumping operation, we offer our Industrial Open Power Units (IOPUs). These have a validated, high spread of power ratings specifically developed for pumps. They are fully packaged units, complete with fuel system, air cleaner and radiator. We call these our 'plug and play' solutions which will give you an easy straightforward installation.

"Partnerships are very important to us and, as a global business, working with a company like Perkins who can support our emissions requirements, makes a difference."  
Jim Mowbray, Managing Director  
Xylem Dewatering Solutions / Godwin UK

For spraying, our engines are precisely matched with the transmission and run on specific ratings developed for constant load. By working with you to optimise our engines to your machines, you get improved fuel consumption and impressive performance.

"We liked the ease with which we could integrate the new Stage IV engine into our sprayers. The engine-mounted aftertreatment really worked for us."  
Dr Darren Bentley CEng MIAgrE, Engineering Manager, Knight Farm Machinery Ltd



# Choose your perfect power solution



## 400 Series

**Overview:** A versatile 2, 3 and 4 cylinder range of engines offering you desirable power in an ultra-compact package, with low ownership costs and high residual value and the ability to meet any emissions standards.

**Power:** 10.2-49.2 kW (13.7-66 hp)

**Emissions:** Meets all levels of emissions standards and easily optimised for U.S. EPA Tier 4 Final.

**The 400 Series offers you:**

- Compact size and design
- Simple installation, even in the smallest machines
- Low noise and smoke levels
- Competitive cost of ownership
- 500-hour service intervals
- Two year / 2,000 hour warranty

**The advanced 400F model also offers:**

- High resell value for lower regulated markets
- Automatic aftertreatment management
- Improved fuel and oil consumption
- A common platform, easily tailored to meet emissions standards anywhere in the world



## 850 Series

**Overview:** Responsive, compact, 4 cylinder engines offering you exceptional power density and torque and excellent cold starting.

**Power:** 45-90 kW (60-121 hp)

**Emissions:** EU Stage IIIB and Stage IV / U.S. EPA Tier 4 Interim and Tier 4 Final and MLIT Step 4.

**The 850 Series offers you:**

- 40% more power than previous generations
- Downsizing capability - a 3.4 litre engine that can do the work of a 4.5 litre
- High power density combined with excellent torque
- Optimum fuel consumption for cost savings
- A single core engine platform for a wide range of applications
- High quality and service-free components
- Compact, flexibly fitted aftertreatment
- Two year / 3,000 hour warranty (36 months on major components)



## 1100 Series

**Overview:** Our most popular engine range offers you a choice of 3, 4 and 6 cylinder options for lower emission-regulated territories. Each model comes with excellent power density, flexible options, simple installation and overall low cost of ownership.

**Power:** 36.9-205 kW (49.5-275 hp)

**Emissions:** Up to EU Stage IIIA / U.S. EPA Tier 3 equivalent.

**The 1100 Series offers you:**

- A common platform engine designed for a range of markets
- High power density combined with excellent torque
- Low noise
- Optimum fuel consumption for cost savings
- A huge range of options to tailor your product to meet your needs
- Low cost of ownership
- Two year / 3,000 hour warranty (36 months on major components)



## 1200 Series

**Overview:** Responsive, high-productivity 4 and 6 cylinder engines offering you flexible features and low ownership costs.

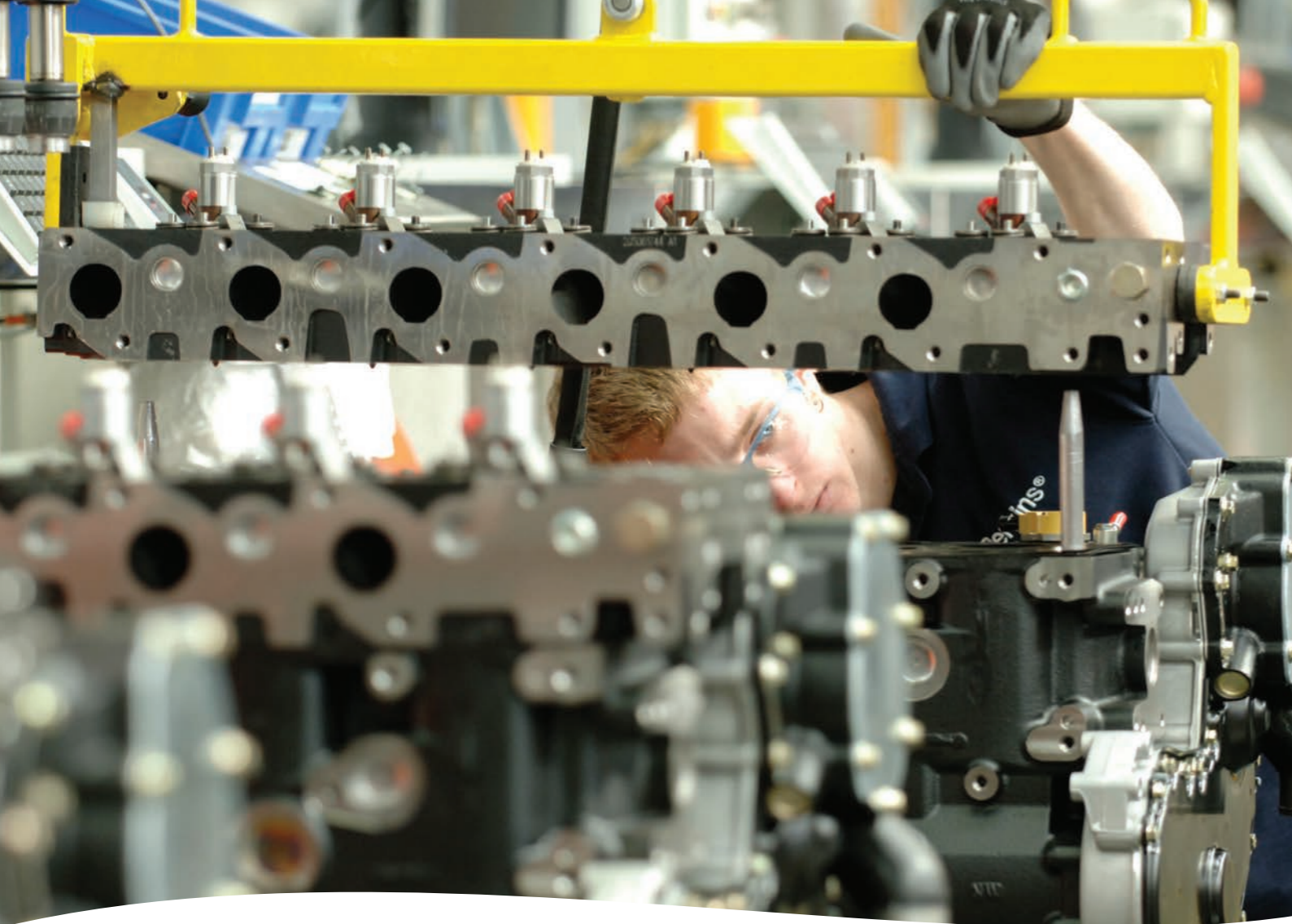
**Power:** 61.5-240 kW (82.5-320 hp)

**Emissions:** EU Stage IIIB and Stage IV / U.S. EPA Tier 4 Interim and Tier 4 Final and MLIT 2014 Regulations (Japan).

**The 1200 Series offers you:**

- 8% better fuel consumption than the 1100 Series
- Fast response, high power and torque levels up to 1257 Nm
- Multiple options for flexible and compact installation
- Common hook-ups for easy transition from EU Stage IIIA / U.S. EPA Tier 3
- Reliable cold starts at -25°C as standard – up to -40°C with add-on cold packs
- Service-free diesel particulate filters on some models
- Two year / 3,000 hour warranty (36 months on major components)

More details: A full product brochure and specifications are available from your nearest distributor and at [www.perkins.com/ag](http://www.perkins.com/ag)



# Quality people Quality product

You can depend on us to bring you the quality, collaboration and benefits you expect from your engine supplier ...

- One of the largest independent engine suppliers for off-highway equipment.
- Over 80 years of heritage and expertise in your market.
- Collaboration with customers for tailored solutions and future development.
- Opportunities to downsize from larger to smaller engines, while retaining the same levels of power and torque.
- Engines that run on 20% biodiesel.
- Durable, robust products designed specifically for our customers in the agricultural market: stressed/ non-stressed, specific block and sump design, high turbo positions, modular packages with the engine and aftertreatment fitted together.
- Excellent fuel efficiency.
- Local sourcing and manufacturing gives instant access into a global supply chain that reduces leadtimes and improves our efficiency.
- Global network of support.

Application	Perkins engines									
	400 Series			850 Series	1100 Series			1200 Series		
	10.2-49.2 kW (13.7-66 hp)			45-90 kW (60-121 hp)	63.5-205 kW (85.2-275 hp)			110.1-240 kW (147.6-320 hp)		
	Cylinders			Cylinders	Cylinders			Cylinders		
2	3	4	4	3	4	6	4	6		
Wheeled Loaders						■	■	■	■	
Back Hoe Loaders				■		■		■		
Combine Harvesters							■		■	
Tractors			■	■	■	■	■	■	■	
Irrigation Pumps							■		■	
Forest Machines						■	■	■	■	
Mowers (Lawn and Garden)		■	■							
Telehandlers				■		■		■		
Tree Shakers				■		■		■		
Grape Harvesters				■		■	■	■	■	
Self-propelled crop sprayers							■			



Our product offering expands by offering a full range of clean, economical engines for electrical power generation. These engines hit all the key power nodes within the 5-2500 kVA (4-2000 kWe) range and will deliver prime and standby power to meet all your requirements.

All engines come with a 12-month warranty and 500-hour service intervals as standard, giving you extra peace of mind.

**Small range engines:**  
400 Series  
2, 3 and 4 cylinder engines  
5-39 kVA (4-31 kWe)

**Medium range engines:**  
1100 Series, 1000 Series and 1200 Series  
3, 4 and 6 cylinder engines  
30-250 kVA (24-200 kWe)

**Large range engines:**  
1300 Series, 1600 Series, 2000 Series and 4000 Series  
6, 8, 12 and 16 cylinder engines  
200-2500 kVA (160-2000 kWe)



### Wherever you are in the world, you are always local to Perkins

To all our customers we make a simple promise: to keep your engines running wherever they are in the world.

With highly trained Perkins distributors in thousands of communities in over 180 countries, you are never far away from expert product knowledge, genuine parts and a range of advanced diagnostic technology for keeping your engine in peak condition.

We are committed to building long-lasting partnerships with you, and our distributors understand the unique needs of the market you operate in.

### Enjoy peace of mind with warranties and service contracts

A reputation is built on trust and reliability, which is why we provide one-year warranties for constant speed engines and two-year warranties for variable speed models, as standard. These are supported by multilevel Extended Service Contracts that can be bought additionally and are tailored to suit your needs, offering extra reassurance that your engine is well cared for.

# You can always count on us

**We go the extra distance to bring you** unrivalled service and support, genuine parts availability 24/7, access to remanufactured parts that give you same-as-new quality, and **more machine productivity.**

Our customers rely on us to deliver the highest standards of quality and innovation, which is why our engines are designed and built from close customer collaboration. For some projects, customers are invited to one of our Technology Integration Workshops, where our engineers will work closely with you to understand your challenges and requirements, tailoring our technology for your specific applications.

It's an approach our customers find stimulating and productive, and one that can significantly reduce your development time and costs, ensuring a maximum return on investment.

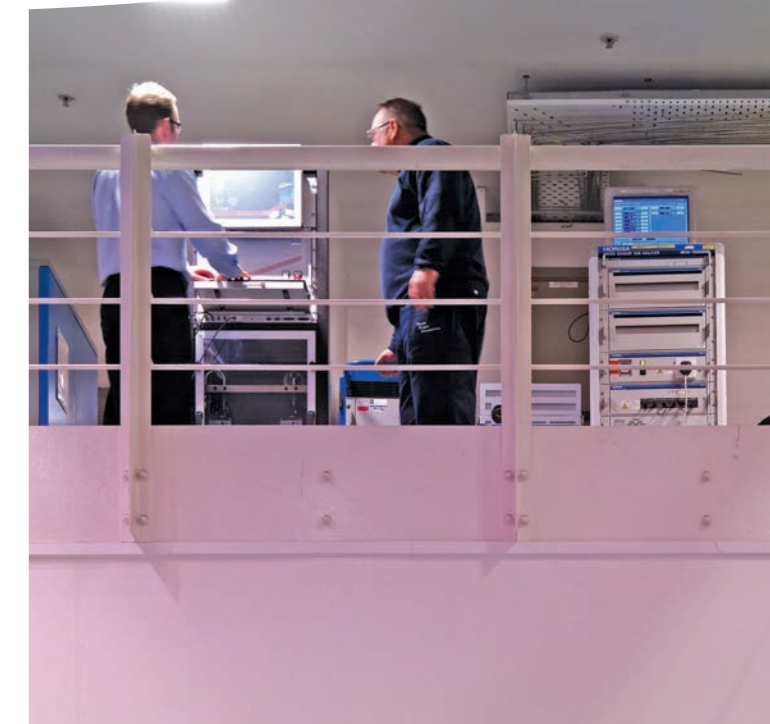
#### Discover more

To find out how Perkins can help transform your business and to download detailed engine specification sheets, please visit [www.perkins.com](http://www.perkins.com).

#### Other useful links

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

To find your local Perkins distributor.



## Perkins Sales Offices

### Asia

#### Singapore

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Fax: +65 6828 7414

#### China

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1319 West Yan'an Road,  
Shanghai 200050  
China  
Tel: 86 21 22160774  
Fax: 86 21 52136624

#### India

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The Business Precinct  
Whitefield Main Road,  
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Email: Enquiry\_India@perkins.com

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THE HEART OF EVERY GREAT MACHINE

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