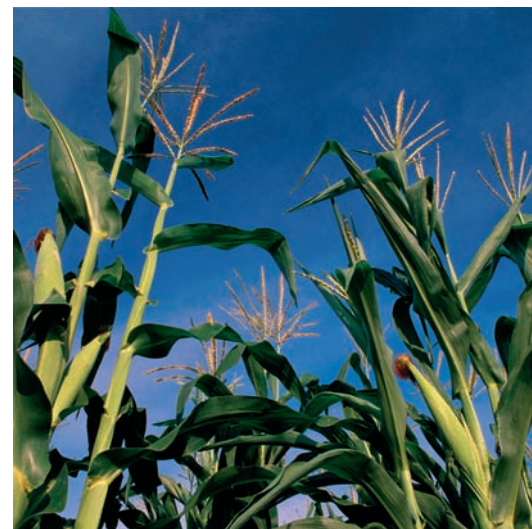




Power for Industry



The heart of every
great machine

Powering a better future

For over 70 years Perkins has been working with the makers of powered industrial equipment to provide the highest levels of performance and reliability for the toughest tasks in the industrial, construction, materials handling and agricultural markets. Today Perkins' engines lead the way. Not only in the traditional values where only the utmost reliability counts and rugged power delivers, but also in the more modern qualities that make Perkins' engines quieter, cleaner, longer lasting, and even more economical.

Since pioneering diesel power for industrial machinery, Perkins has maintained an uncompromising commitment to meeting the needs of equipment manufacturers and those that legislate for a safe and clean future. As a result, thousands of ideas have shaped a product line of cleaner, low emissions engines that stretch from 8.2 to 205 kW (11 to 275 hp).



Across all industries, Perkins' engines power over 5000 different applications.



Across all sectors, customers know their Perkins' unit is more than just an engine - it's a complete power solution that has been individually tailored for them by experts.

By concentrating on the production of engines rather than complete machines, Perkins has developed an extensive range of power solutions to satisfy the demands of a constantly changing market. Now built on three continents Perkins' specialist engine solutions are trusted by more than 1,000 leading manufacturers across all industrial market sectors.

Since 1932 over 18 million Perkins' engines have entered into service. Close to half of these are still hard at work, supported by a vast network of over 4,000 distribution and service centres throughout 160 countries. Such global standing calls for a sustained investment of massive proportions into research and development. Perkins' goal: the ultimate balance of advanced technology and rugged reliability, smoothly guiding customers through progressive emissions stages with cost effective power.

Perkins means confidence for our customers

Driven by customer needs

The challenge posed by the environment and the demands of industrial equipment worldwide means an almost constant re-evaluation of engine technology. Perkins is committing the resource and capability required to deliver customer and legislative needs, now and for the future.

Across all industries, Perkins' engines power over 5,000 different applications. The design features of Perkins' engines ensure their suitability for a wide variety of applications - wherever equipment is required to pull, push, turn, carry, dig, lift, pump or move, Perkins will be able to tailor a power solution exactly to the need.

Construction Power

With a tough and durable product line that thrives on the most demanding

tasks, Perkins powers a large percentage of all construction machines made in Western Europe. Think of some famous construction equipment manufacturers and it is reasonable to assume that a Perkins' engine will be at the heart of their range.

Industrial Power

Perkins offers a comprehensive range of industrial power solutions from bare engines, through fan to flywheel units, to complete Industrial Open Power Units. A wide choice of speed and torque ratings are available, as well as engines for gas powered applications.

Materials Handling Power

Perkins' key strength is its ability to tailor engines precisely to customer needs, which is why major manufacturers of platforms, side loaders and container

handlers prefer the quiet economy of Perkins power. Renowned as an engine supplier for counter-balanced and rough-terrain forklift trucks, Perkins' heritage is demonstrated by the fact that Perkins power is at the heart of a great majority of telehandlers worldwide.

Agricultural Power

Clean, reliable and with a comprehensive range of specifications and options, Perkins' products can be easily engineered to meet the special design requirements of agricultural machines. This flexibility is reflected in the fact that one in five of all tractors in use are Perkins powered.

Engine range...

All Perkins 400, 800 and 1100 Series engines provide the following features and benefits

Productivity

- High power and torque
- Designed for quality and reliability

Low Cost of Ownership

- 500 hours service intervals
- 500 hours oil change
- 1,000 hours fuel filter change
- Single side servicing
- Up to two years warranty
- Low oil consumption and servicing costs

Refinement

- Low emissions – smoke and noise
- Modern aesthetics
- Tailored technology

400 Series

The 400 Series comprises of a range of tough 2, 3 and 4 cylinder water-cooled engines which provide clean, quiet and cost-effective power. The 400 Series covers a power span of 8.2 – 45.5 kW (10.9 – 61 hp) and offers naturally aspirated and turbocharged models, with the additional choice of balanced ratings.

The versatile nature of the 400 Series makes it ideal to suit a large variety of applications in Agriculture, Lawn and Garden, Construction, Materials Handling and General Industrial.

Product Functionality

- Glow plugs for reliable cold starting to – 20°C
- 47 Nm PTO from RHS timing case to power customer ancillaries
- 35° gradeability continuous

800 Series

The 800 Series is a range of robust 4 cylinder 3.3 litre engines that provide clean, quiet and cost effective power. The 800 Series covers a power range of 43 – 60 kW and offers naturally aspirated (indirect injection) and turbocharged (direct injection) models, with the additional choice of balanced ratings.

The dependable nature of the 800 Series makes a great solution for a number of applications in a number of different sectors, notably Agriculture.

Fuel Systems technologies

- Self venting rotary FIE (EPVE) for superior fuel delivery control and governing, increased reliability and low servicing costs
- Cross flow cylinder head with advanced design for efficiency of combustion
- Mechanical all speed governing

1100AC Series

The 1100 AC Series is a range of 1 - 1.1 litre per cylinder water-cooled engines, offering a power range from 43.0 kW to 129.5 kW (57.6 - 174 hp) Fifteen different models in 3, 4 and 6 cylinder variants offer a wide range of tailor made solutions for applications in the Agricultural, Construction, Materials Handling, Turf and Power Generation markets. Utilising a common platform

theme, the A and C Series engines are designed to offer minimal change engineering when moving to the next level of emissions compliant engine.

Product Functionality

- Cold start down to - 25°C
- Choice of balanced electronic and mechanical ratings
- Wide choice of PTO offerings - lh/rh, single/twin, medium/light duty up to 210 Nm (155 lbf ft)
- Delivered Torque up to 695 Nm (513 lbf ft)
- Up to 36° operational gradeability

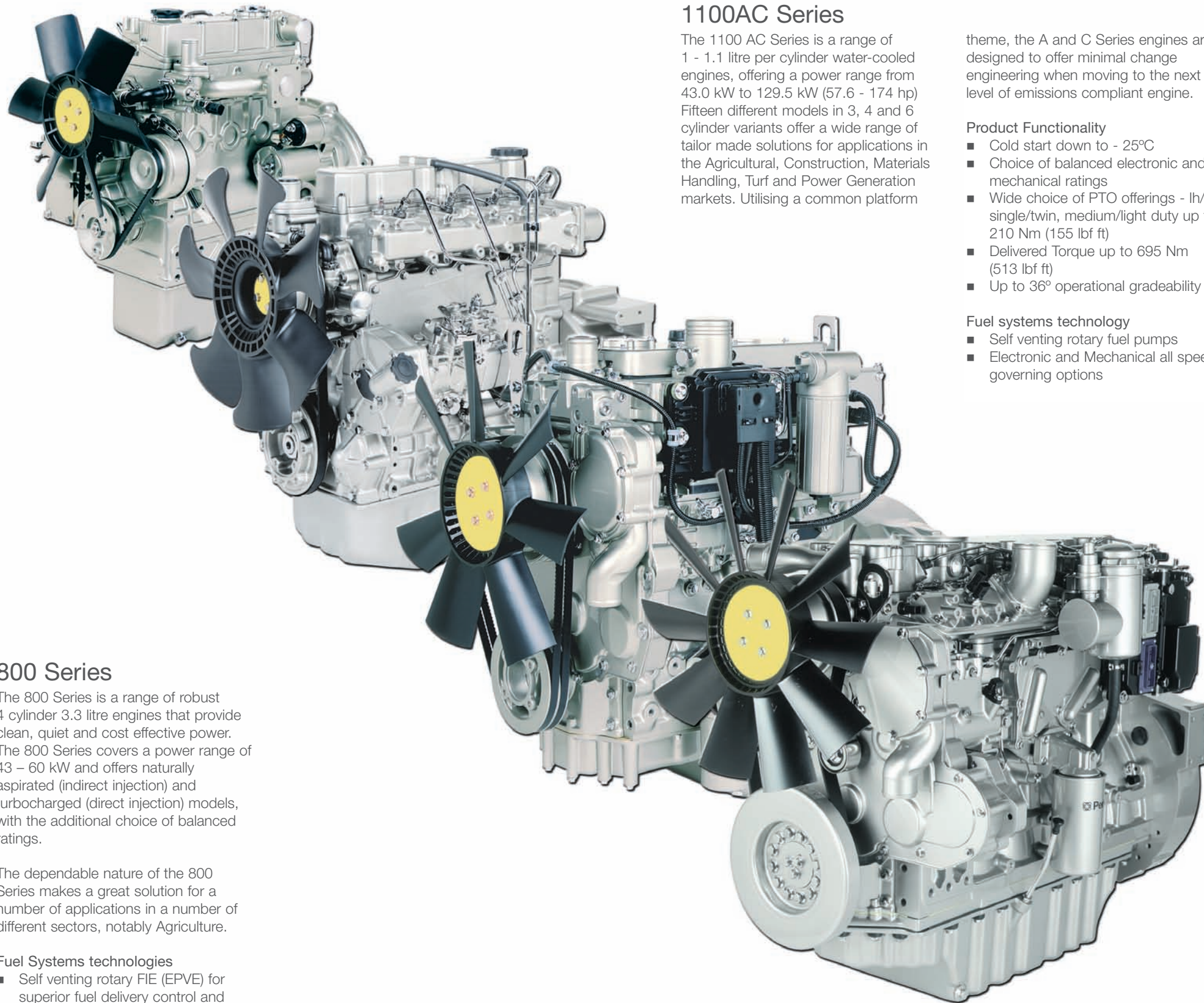
Fuel systems technology

- Self venting rotary fuel pumps
- Electronic and Mechanical all speed governing options

1100D Series

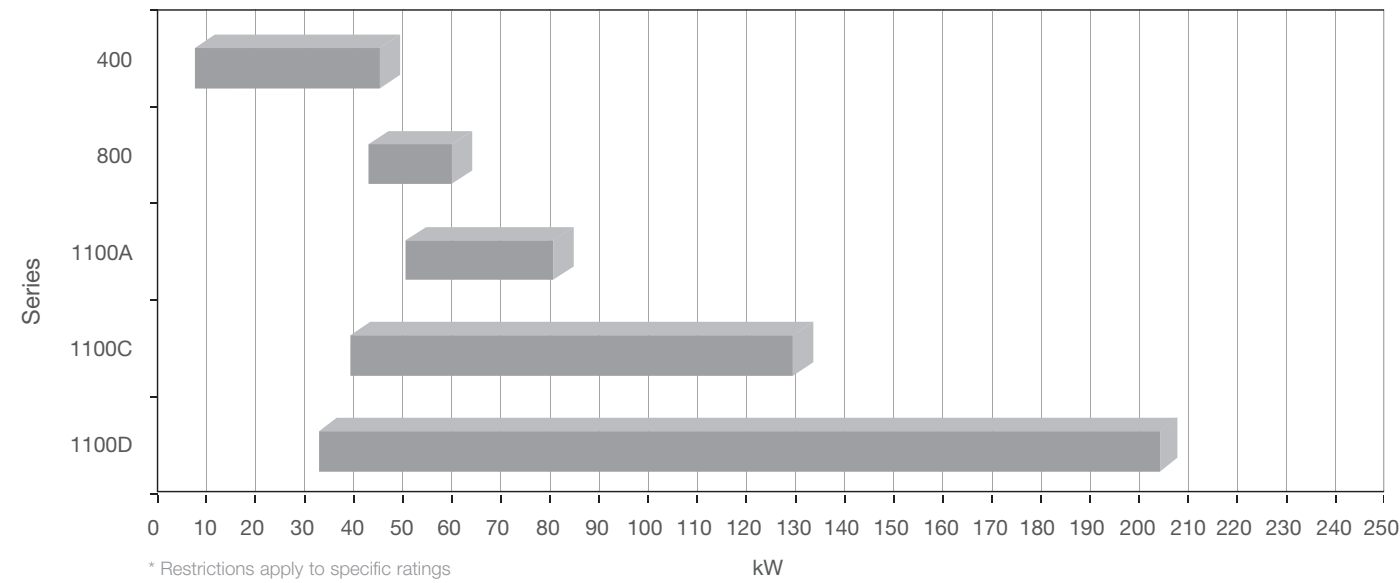
1100D Series is a comprehensive family of 3, 4 and 6 cylinder, 1.1 litre per cylinder engines, which are Tier 3/Stage IIIA emissions compliant. The range brings more power from 36.9 to 205 kW (49.4 to 275 hp) yet provides low fuel consumption from a quieter, more refined package that will easily fit into current machine designs. 1104D and 1106D engines can be specified with an electronic fuel system using components of Caterpillar's ACERT™ technology, or with an advanced mechanical fuel system. This capability to tailor engine technology to a specific market provides more flexibility in managing product costs.

- Using ACERT technology boosts engine performance: up to 43% more power and 51% more torque
- Multi-vee belts and service cylinder liners eradicate time consuming tasks such as tensioning and cylinder re-bores, shortening service time and reducing the cost of ownership
- Bare engine noise lowered by up to 5 dB(A)
- Minimal impact on package size, with major hook up points common with the 1100C



This capability to tailor engine technology to a specific market provides more flexibility in managing product costs

Power range*



Global Product Support

Wherever it is required in the world, Perkins product support is designed to keep a Perkins engine running. We recognise the importance of maximising engine productivity to fulfil our customer's needs, hence our goal to be the world leader in global product support for engines.

Our network are the engine experts when it comes to the full Perkins range. Perkins trained distributors have TIPSS (The Integrated Product Support Solution) suite of web enabled tools at their fingertips, providing them with the very latest, up-to-date real time information. So whether it's for parts identification and ordering, engine fault diagnosis or technical information, the Perkins distributor can complete the job to Perkins stringent standards, first time, worldwide.

From cradle to grave, Perkins has the solutions to meet customer needs. From standard maintenance, to comprehensive repair or complete overhaul, a cost effective solution is available whatever the age or condition of the Perkins engine. Perkins OE specification parts also come with a 12 month warranty, providing the best quality at the lowest possible cost.

Fully dedicated to looking for innovative solutions to industry issues, Perkins is working hard to ensure continuity of component supply. The exchange range offers remanufactured parts, giving good as new quality parts, from reworked core. A sustainable proposition, at the right price and all this with a reduced impact on the environment.



Every minute of every working day another Perkins' engine leaves the production line to join those bringing total customer satisfaction worldwide. Across all sectors, customers know their Perkins' unit is more than just an engine – it's a complete power solution that has been individually tailored for them by experts.

Around the world Perkins is trusted by the manufacturers and operators of powered industrial equipment. Trusted to deliver reliability and performance. Trusted to provide cost effective solutions as emissions standards continually tighten. And above all, trusted to provide the best levels of support, the lowest cost of operation, and when the time comes, to be the accepted brand as equipment is sold on.

Trusted to deliver reliability and performance



To give complete peace of mind to the machinery user, Perkins also offer Extended Service Contracts that take the worry out of engine ownership. Flexible coverage can be taken out for up to 8,000 hours of engine service, giving total protection against unexpected repair costs.

Perkins global product support is designed to enhance the customer experience of owning a Perkins powered machine. We deliver this through the quality of our distribution network, extensive global coverage and a range of Perkins supported OEM partnership options. So whether you are an end-user or an equipment manufacturer our engine expertise is essential to your success.

Perkins product support ensures engine expertise is available throughout the world and around the clock. Surpassing customer's needs and keeping Perkins powered machines productive

Trusted to provide cost effective solutions as emissions standards continually tighten.



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