

# 850

Series

**Power and efficiency**  
in a small package



 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

# Rest assured. It's powered by Perkins

When you are looking to create smaller, higher performing, more cost-effective machines, the 850 Series answers your challenge.

**These engines are built on 80 years of Perkins innovation and customer insights, bringing you class-leading power density while meeting the toughest emissions legislation.**

#### Bringing you more power in a smaller package

The space-saving 850 Series offers you a choice of two outstanding models – the 854F: 45–90 kW (60–121 hp) and the 854E: 55–86 kW (74–115.3 hp) – with torque of up to 490 Nm. Compared to previous generations, that's a 40% power increase, and up to 60% more torque.

Listening to your needs, our talented teams have created a much smaller displacement engine than you may be used to at this power range – giving you the same power as our previous generation, 4.5-litre engine. This allows you to develop smaller, more agile machines and frees up valuable space for the engine's aftertreatment system which can be mounted in different locations to give you added flexibility.

#### Helping you meet the emissions legislation split

Due to the way the emissions legislation is structured in North America and Europe, the 850 Series features two engines that fall either side of the 56 kW (75 hp) cut-off point between EPA Tier 4 Interim and Tier 4 Final.

While the 854E meets EU Stage IIIB/EPA Tier 4 Interim, the 854F is already EU Stage IV / EPA Tier 4 Final compliant, ensuring you have the perfectly tailored model for your applications and markets.

#### Keeping your costs down

You can always depend on Perkins to deliver technology designed to ensure reliability, fuel efficiency, long-lasting quality components and minimum servicing.

The choice of aftertreatment on both models differs but both options offer superb fuel economy and performance.

In the case of the 854F, the through-flow filter option offers you a service-free after treatment through the use of passive regeneration technology.

## Factfile: 850 Series

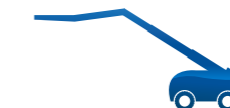
<b>Overview:</b>	Responsive, compact, 4-cylinder engines offering you exceptional power density and torque, a lifetime of low cost and which meet stringent emissions legislation.
<b>Power:</b>	45–90 kW (60–121 hp).
<b>Ideal for:</b>	Telehandlers, backhoe loaders, skid-steer loaders, forklift trucks, access platforms, tractors, air compressor etc.
<b>Emissions:</b>	EU Stage IIIB / EPA Tier 4 Interim / MLIT Step 4 in the 854E and EU Stage IV/EPA Tier 4 Final in the 854F.



Tractors



Telehandlers



Access Platforms



Trenchers



Skid Steer Loaders



Excavators



Back Hoe Loaders

Full specifications available from your nearest distributor and at [www.perkins.com](http://www.perkins.com) or [www.tier4air.com](http://www.tier4air.com)

# Your 850 Series

Offering you compact design, great fuel efficiency and high performance, the 850 Series is available in two models to meet different emissions legislations and power demands.

Choose your perfect power solution

**850 Series: EU Stage IIIB / EPA Tier 4 Final  
EU Stage IIIB / EPA Tier 4 Interim / MLIT Step 4**

Model	Cylinder	Maximum power		Maximum torque		EPA Tier 4 Interim	EPA Tier 4 Final	EU Stage IIIB	EU Stage IV	MLIT Step 4
		kW	hp	Nm	lb.ft					
854F-E34T	4	45-55.4	60-74	291	214.6		•	•		
854E-E34TA	4	55-86	74-115.3	450	331.9	•		•		•
854F-E34TA	4	63-90	84-121	490	361.4		•		•	

#### The 850 Series gives you:

- 40% more power than previous generations
- High power density combined with excellent torque in a compact 3.4 litre engine
- Optimum fuel consumption for cost savings
- A single core engine platform for a wide range of applications
- A lifetime of low cost with service free components and aftertreatment
- Compact, flexibly fitted aftertreatment

For full specifications visit [www.perkins.com](http://www.perkins.com) or [www.tier4air.com](http://www.tier4air.com)



# You can always count on US



**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 which can significantly reduce your development time and costs, ensuring a maximum return on investment.

#### **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.

We go the extra distance to bring you unrivalled service. That's why our UK and Singapore parts distribution centres operate around the clock, guaranteeing direct delivery of genuine Perkins parts wherever you are in the world.



#### **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)

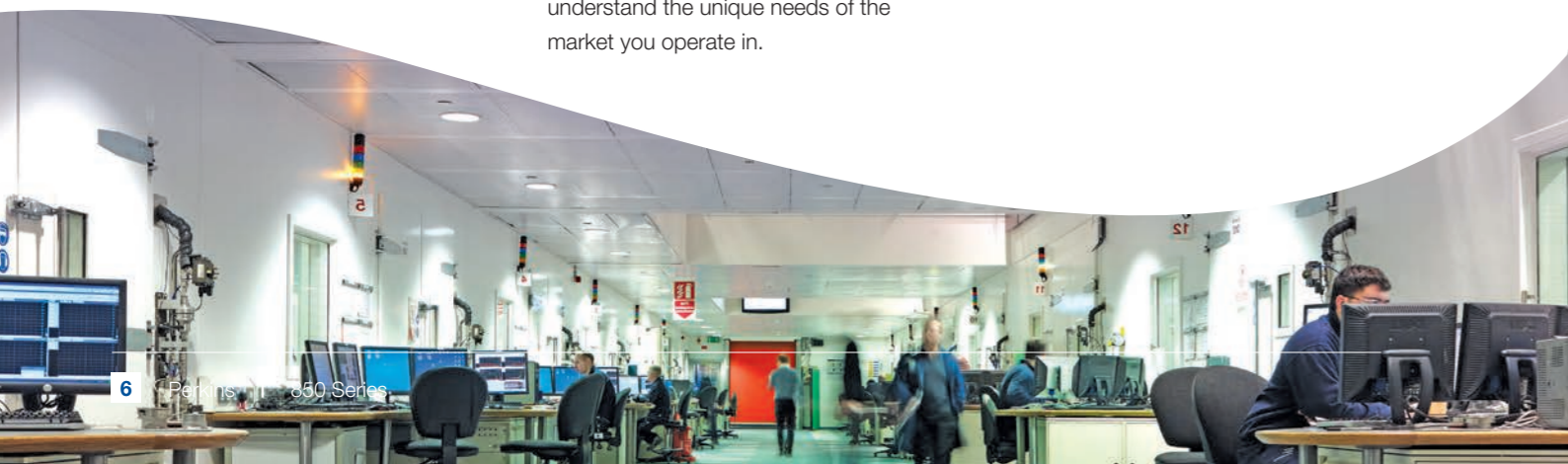
Other useful links

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

To find your local Perkins distributor.

[www.tier4air.com](http://www.tier4air.com)

Learn more about how our innovative technology is leading the way to bring you cleaner, higher performing engines.



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