

# 854E-E34TA Industrial Open Power Unit

66-86 kW (88-115 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

Our 850 Series Tier 4 interim engines are designed to meet the needs of customers operating in EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent territories. The 854E models build on more than 80 years of Perkins innovation and customer insights, offering you world-class power density in a compact package. They provide the ideal choice for telehandlers, backhoe loaders, skid steer loaders, access platforms, agricultural tractors and many other applications.

Our 854E-E34TA IOPU is efficient, powerful and productive. Its impressive power density allows you to maximise your profitability. Perkins is an industry leader in flexibility too, so the engines offer an easier solution on installation. Designed to meet EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent emission standards.



## Specifications

Power Rating		
Minimum power	66 kW	88.5 hp
Maximum power	86 kW	115 hp
Rated speed	2200 rpm	
Maximum torque	420 Nm @ 1400 rpm	310 lb-ft @ 1400 rpm

Emission Standards	
Emissions	EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

General		
Number of cylinders	4 inline	
Bore	99 mm	3.9 in
Stroke	110 mm	4.3 in
Displacement	3.4 litres	207.5 cubic in
Aspiration	Turbocharged aftercooled	
Cycle	4 stroke	
Compression ratio	17:1	
Combustion system	Direct injection	
Rotation (from flywheel end)	Anti-clockwise	
Cooling system	Liquid	

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

Photographs are for illustrative purposes only and may not reflect final specification.  
All information is substantially correct at time of printing and may be altered subsequently.  
Final weights and dimensions will depend on completed specification.

SS-10368278-1000001882-009  
MSS-IND-1000001882-009.pdf

Produced In England © 2017 Perkins Engines Company Limited

 **Perkins®**

THE HEART OF EVERY GREAT MACHINE

SS Page 1 of 4  
Page: M-1 of M-3

# 854E-E34TA Industrial Open Power Unit

66-86 kW (88-115 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

Total coolant capacity	16 litres	4.2 US gal
Total lubricating capacity	9.5 litres	2.51 US gal

## Engine Dimensions\*

Length	1252 mm	49.3 in
Width	705 mm	27.7 in
Height	1033 mm	40.7 in
Dry weight	407 kg	897 lb

## Aftertreatment Dimensions\* - DOC/DPF Wall Flow

Length	541 mm	21.3 in
Diameter	180 mm	7.1 in
Weight	20 kg	44 lb

## Disclaimer

*Final dimensions dependent on selected options	0	0
---	---	---

## Features and Benefits

### A lifetime of low cost

Low cost of ownership is an important benefit of the 854E. With fuel consumption optimised to match the operating cycles of a wide range of equipment and applications – and no additional fluids or additives required – your operating costs will be lowered. The engines are designed and built for dependability and durability, which results in minimum maintenance requirements.

Low cost maintenance is achieved through hydraulic tappets, multi-vee belts and 500 hour oil change intervals.

### Performance in a small package

Our 854E engines give you more power in a compact package. They provide 63–86 kW (84–115 hp) with torque of up to 450 Nm.

The compact design of the engine means it's suitable for a range of applications including agricultural tractors, telehandlers, access platforms, air compressors, forklift trucks, trenchers, skid steer loaders, excavators and backhoe loaders. These engines meet the challenge if you're looking to create smaller, higher performing, cost effective machines.

## Technical Information

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

Photographs are for illustrative purposes only and may not reflect final specification.  
All information is substantially correct at time of printing and may be altered subsequently.  
Final weights and dimensions will depend on completed specification.

SS-10368278-1000001882-009  
MSS-IND-1000001882-009.pdf

Produced In England © 2017 Perkins Engines Company Limited



THE HEART OF EVERY GREAT MACHINE

SS Page 2 of 4  
Page: M-2 of M-3

# 854E-E34TA Industrial Open Power Unit

66-86 kW (88-115 hp) @ 2200 rpm

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

## Aftertreatment technology

- DPF - Diesel Particulate Filter
- DOC - Diesel Oxidation Catalyst

## Air inlet system

- Air cleaner on flywheel-mounted aftertreatment
- Standard air cleaners

## Control system

- All connectors and wiring looms waterproof and designed to withstand harsh off-highway environments
- Flexible and configurable software features and J1939 standard communications I/O
- Full electronic control system
- Fully integrated, engine-mounted engine control module

## Flywheels and flywheel housing

- SAE3 configuration

## Fuel system

- Electronic high pressure common rail
- Engine-mounted fuel filters

## General

- Balanced or unbalanced
- Engine control panel
- Machine side wiring
- Pusher or puller fan

## Power take-off

- SAE A flange on left-hand side

## Standard emissions control equipment

- NRS – NOx Reduction System

---

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

Photographs are for illustrative purposes only and may not reflect final specification.  
All information is substantially correct at time of printing and may be altered subsequently.  
Final weights and dimensions will depend on completed specification.

SS-10368278-1000001882-009  
MSS-IND-1000001882-009.pdf

Produced In England © 2017 Perkins Engines Company Limited



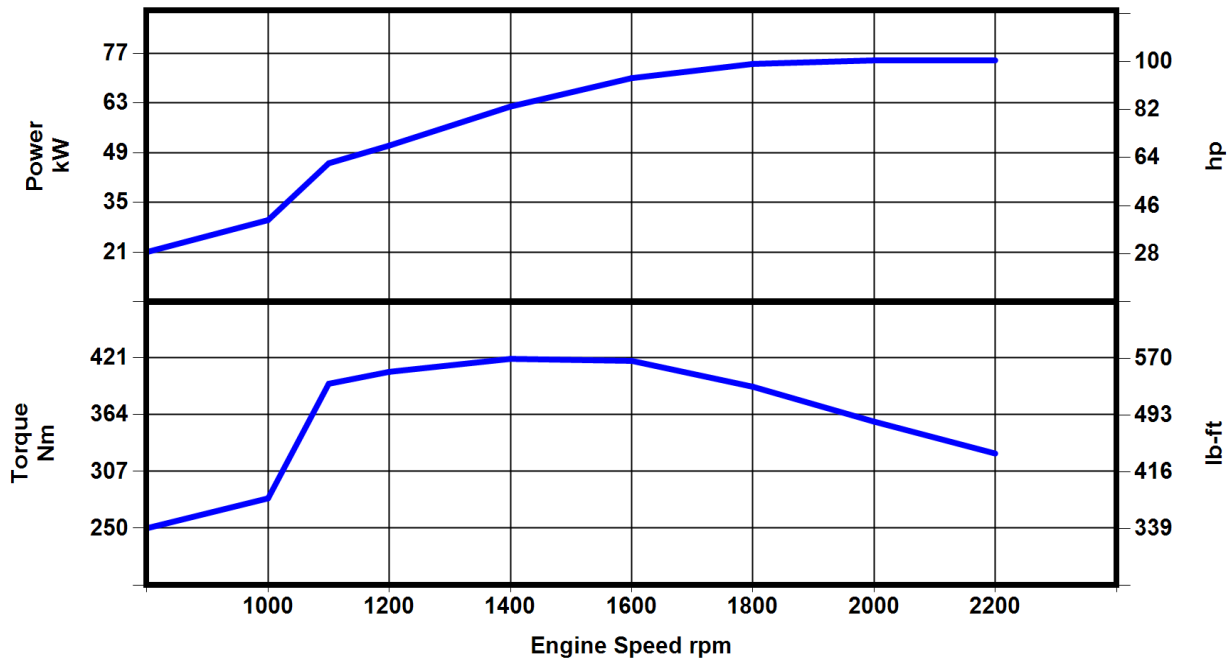
THE HEART OF EVERY GREAT MACHINE

SS Page 3 of 4  
Page: M-3 of M-3

# 850 Series 854E-E34TA INDUSTRIAL ENGINE

EU Stage IIIB/U.S. EPA Tier 4 Interim equivalent

66.0-75.0 kW / 88.5-101 hp



Power kW	Power hp	Rated Speed (rpm)	Torque Nm	Torque lb-ft	Speed (rpm)	Rating Type
66.0	88.5	2200	370	501	1400	Industrial C intermittent rating
75.0	101	2200	420	569	1400	Industrial C intermittent rating

Rating Standard ISO 14396:2002

Additional ratings are available for specific customer requirements. Consult your Perkins distributor.

Unless otherwise specified, all stated data is for maximum rated speed and 100% load.

B rating performance data will be added upon availability

## Rating Definitions and Conditions

### IND-C (Intermittent) Rating

Is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Rating Conditions for Diesel Engines – up to 7.1 liters are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (0.295 in Hg) and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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

Photographs are for illustrative purposes only and may not reflect final specification.  
All information is substantially correct at time of printing and may be altered subsequently.  
Final weights and dimensions will depend on completed specification.



THE HEART OF EVERY GREAT MACHINE