

Type

4-cylinder in line, four stroke. Bore 3" or 76.2 mm, stroke 3.5" or 88.9 mm. Output 40 s.h.p. at 3,600 r.p.m. (Intermittent), 33 s.h.p. at 3,000 r.p.m. (Continuous). Swept volume 99 cubic inches or 1,621 liters.

Weight

Direct drive 495 lbs. (224.5 kgs.) 2:1 reduction, 525 lbs. (238.1 kgs).

Reverse Gear

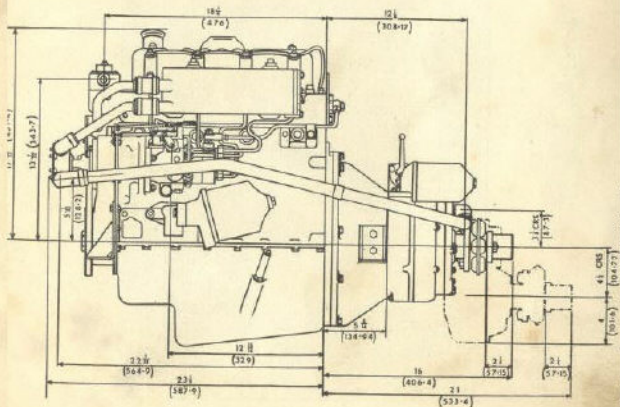
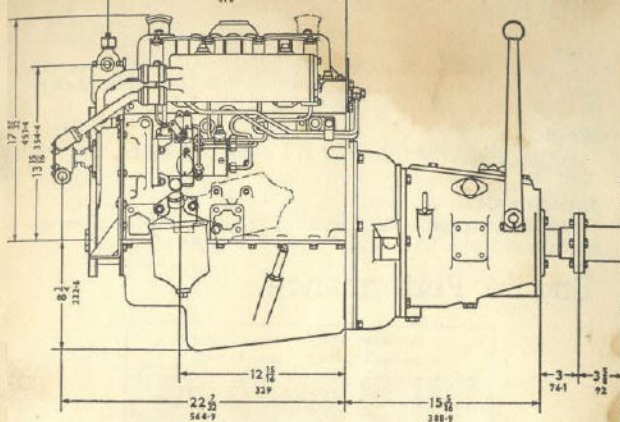
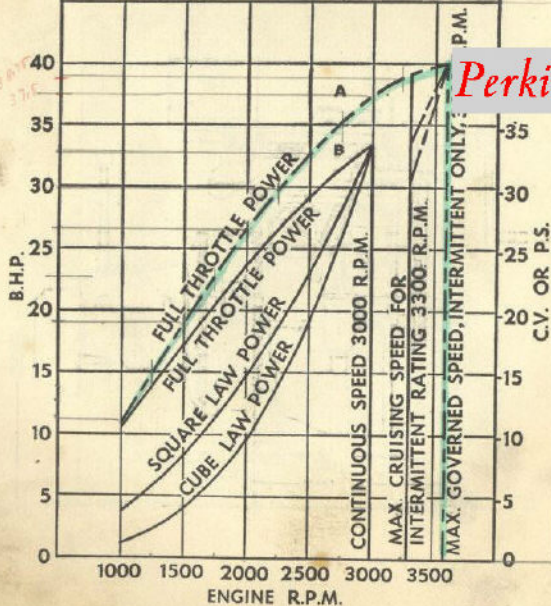
Engines can be supplied with oil operated or mechanically operated reverse gearboxes fitted directly to the flywheel housing.

Reduction

When mechanically operated gearboxes are fitted reduction gears with 2:1 or 3:1 ratio are available and can be supplied with an idler pinion fitted to give handed rotation of the propeller shaft. These reduction gears can also be swung 90° port or starboard of the standard vertical position if required. In those cases where oil operated reverse gearboxes are fitted a reduction gear with 2:1 ratio is available and can be supplied with an idler pinion to give handed rotation of the propeller shaft.

Engine Performance

Full throttle curves for direct drive engine-power at gearbox output flange
 Conditions :- (A) High speed intermittent rating. (B) Continuous rating
 Ambient conditions :- Barometer 30ins. HG. Temperature 60°F
 Fuel oil :- GAS OIL Lubricating oil :- SAE. 20



Perkins MARINE POWER

4.108(M)



Perkins horsepower is available about 2000 hours before overhaul and before. Excessive wear, complete run and low usage.

A more distinctive sport performance. Substantiated over half hour to twenty performance. An extensive, advanced and comprehensive maintenance and repair programme throughout the sport range. And that's not all. A comprehensive test system, maintenance, and fuel economy.

Perkins diesel are designed for constant, efficient, low running. Features designed for dependability, with features like a direct injection timing system, all stainless steel.

The 4.108(M) is an excellent, compact, powerplant for pleasure, available in power, run, get, ready, and start's get. A year long, maintenance.

Perkins 4.108(M) is a compact, powerful, and efficient, low running, and start's get. A year long, maintenance.

Perkins 4.108(M) is a compact, powerful, and efficient, low running, and start's get. A year long, maintenance.

Perkins 4.108(M) is a compact, powerful, and efficient, low running, and start's get. A year long, maintenance.

Perkins 4.108(M) is a compact, powerful, and efficient, low running, and start's get. A year long, maintenance.

General Data

Engine Type: In-line, four-cylinder, diesel
Maximum Power/output: 37.5 (51) kW (50/55) hp
Displacement: 1.984 litres
Bore and Stroke: 71.0 x 73.0 mm
Compression Ratio: 14.1
Cooling: Air-cooled
Starting: Electric
Electrical: 12 volt

Power Take Off: 10.5 (14) kW (14/19) hp
Installation Angle: Max. 30° (up to 15° down)
Oil Capacity: 10.5 (14) litres
Max Dry Weight: 140 kg (308 lb)
Installation Angle: 0° to 30°
Combustion System: Indirect injection
Starting System: 12 V DC
Fuel Pump: In-line

51 bhp

 Perkins
England

4.108(M) MARINE DIESEL

Design Features and Standard Equipment

Simple water-cooled, air-cooled, common-rail, 4-cylinder diesel engine with 10000 hours maintenance-free operation.

Complies with ISO 15935-1 and ISO 15935-2. ISO 15935-1 is a standard for the design and construction of marine diesel engines.

Complies with ISO 15935-2, which specifies the requirements for the design and construction of marine diesel engines.

Standard 10000-hour maintenance-free operation. The engine is designed for long life and low maintenance. The engine is designed for long life and low maintenance. The engine is designed for long life and low maintenance.

Water-cooled, air-cooled, common-rail, 4-cylinder diesel engine with 10000 hours maintenance-free operation.

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Complies with ISO 15935-2, which specifies the requirements for the design and construction of marine diesel engines.

Standard 10000-hour maintenance-free operation. The engine is designed for long life and low maintenance. The engine is designed for long life and low maintenance.

50 hp (37 kW) at 2000 rpm



4.108(M) Performance

Maximum power and torque are achieved at 2000 rpm. The engine is designed for long life and low maintenance.

Standard 10000-hour maintenance-free operation. The engine is designed for long life and low maintenance.

Fuel Consumption

Low fuel consumption and low emissions. The engine is designed for long life and low maintenance.

Power (kW)	Speed (rpm)	Fuel Consumption (l/h)	Specific Fuel Consumption (g/kWh)
10	1000	1.5	150
20	1500	3.0	150
37	2000	5.5	150



Perkins
Engines

Dimensions (typical) in/mm



Perkins Engines Ltd.
10000 hours maintenance-free operation.
ISO 15935-1 and ISO 15935-2 compliant.

05 2010 0000

Perkins engines

4.108V

IN-CYLINDER MOTOR



Key specifications and features:

- 4.108V In-cylinder Motor
- 33 BHP at 4000 RPM
- 1000 cc displacement
- 1000 cc displacement
- 1000 cc displacement
- 1000 cc displacement

Key specifications and features:

- 4.108V In-cylinder Motor
- 33 BHP at 4000 RPM
- 1000 cc displacement
- 1000 cc displacement
- 1000 cc displacement
- 1000 cc displacement

Specifications								
Displacement	1000 cc							
Rated Power	33 BHP							
Rated RPM	4000							
Stroke	75 mm							
Bore	75 mm							
Weight	100 kg							
Dimensions								
Accessories								
Applications								

4.108V In-cylinder Motor



General Arrangement

- 1 - In-cylinder motor
- 2 - In-cylinder motor
- 3 - In-cylinder motor
- 4 - In-cylinder motor
- 5 - In-cylinder motor
- 6 - In-cylinder motor
- 7 - In-cylinder motor
- 8 - In-cylinder motor

Perkins Engines Limited
 1000 cc displacement
 33 BHP at 4000 RPM
 4.108V In-cylinder Motor

Perkins MARINE POWER

4.154(M)



Perkins has been a 100% engine manufacturer since 1934 and you will be aware why we offer marine diesel power. Because we have made high power yet ultra-reliable engines for 60 years we have a proven ability to combine reliability with low levels of vibration. This is a 4.154(M) 4-cylinder diesel engine with a maximum power of 62 bhp at 2400 rpm. It has a long life and fuel economy. It is a 4-cylinder diesel engine with a maximum power of 62 bhp at 2400 rpm. It has a long life and fuel economy. It is a 4-cylinder diesel engine with a maximum power of 62 bhp at 2400 rpm. It has a long life and fuel economy.

62 bhp

General Data

Manufacturer: 4.154(M) 4-cylinder diesel engine
Displacement: 1.94 cc x 4 (78.6 cc)
Cylinder: 4-cylinder, 4-cylinder diesel
Compression ratio: 16:1
Max power: 62 bhp @ 2400 rpm
Max torque: 20.5 Nm @ 1800 rpm
Water pump: 1200 rpm
Water pump: 1200 rpm

Max power: 62 bhp @ 2400 rpm
Max torque: 20.5 Nm @ 1800 rpm
Max speed: 2400 rpm
Max torque: 20.5 Nm @ 1800 rpm
Max speed: 2400 rpm
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Max speed: 2400 rpm
Max torque: 20.5 Nm @ 1800 rpm

Perkins
engine

4.154(M) MARINE DIESEL

Design Features and Standard Equipment

Cylinder Block—Developed by the original designer, the block is a cast iron alloy with cast iron cylinder liners. Cast iron liners provide excellent resistance to corrosion and wear over the entire life of the engine. The cast iron cylinder liners provide uniform expansion of metal to fit liner holes.

Cylinder Bore—The cast iron cylinder bore can be replaced with aluminum alloy castings and pistons to increase power and torque and increase fuel economy.

Cylinder Head—The strong cast iron alloy cylinder head is cast with aluminum alloy valves for increased strength, and cast iron pistons are used for resistance to heat and exhaust stresses. Heat has no effect on the cylinder head because of the aluminum alloy cylinder head.

Blockhead—Proper design, including cast aluminum head, provides extra strength and reliability.

Block Head Gasket—The cast iron alloy head gasket is designed to help the cast iron head seal.

Block Head Bolt—The cast iron alloy head bolt is designed to help the cast iron head seal.

Block Head Nut—The cast iron alloy head nut is designed to help the cast iron head seal.

Block Head Washer—The cast iron alloy head washer is designed to help the cast iron head seal.

Optional Equipment

- Water Separator—Water separator, standard.
- Water Separator Filter—Includes oil indicator and water temperature gauge and filter.
- Water Separator Filter—Includes oil indicator.
- Water Separator Filter—Includes oil indicator and water temperature gauge.
- Water Separator Filter—Includes oil indicator and water temperature gauge.

Timing Belts—Timing belts are used with a timing gear. A timing gear is used to drive the timing belt. A timing gear is used to drive the timing belt.

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Timing Belt—Timing belts are used with a timing gear. A timing gear is used to drive the timing belt. A timing gear is used to drive the timing belt.

50% torque delivery at 2000 rpm



4.154(M) Performance

Perkins 4.154(M) Marine Diesel engine is a 4-cylinder, 154 cubic inch (2.5 liter) engine. It is designed for maximum performance and reliability.

Perkins 4.154(M) Marine Diesel engine is a 4-cylinder, 154 cubic inch (2.5 liter) engine. It is designed for maximum performance and reliability.



Perkins engines

Dimensions (physical) in/inches



For more information, call 1-800-521-2634

Perkins Engines, Inc.
1000 10th St.
Waukesha, WI 53191
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4.154 Arag Motor

70 BHP 3600 RPM

Perkins engines



4.154V

VEHICLE DIESEL ENGINE



- Model specification:**
- 1. 4.154V-3000 (3000 RPM) 50 BHP (36.8 kW)
 - 2. 4.154V-3600 (3600 RPM) 70 BHP (51.4 kW)
 - 3. 4.154V-3600 (3600 RPM) 85 BHP (62.1 kW)
 - 4. 4.154V-3600 (3600 RPM) 100 BHP (73.5 kW)
 - 5. 4.154V-3600 (3600 RPM) 115 BHP (84.9 kW)
- Technical specification:**
- 1. Cylinder configuration: 4 in line
 - 2. Stroke: 140 mm
 - 3. Injection: Direct Injection
 - 4. Cooling: Water
 - 5. Lubrication: Dry sump
- Other specification:**
- 1. Net power (kW) at 3000 RPM: 36.8
 - 2. Net power (kW) at 3600 RPM: 51.4
 - 3. Net power (BHP) at 3600 RPM: 70
 - 4. Max. gross torque: 130 kgm

- 1. Net power (kW) at 3600 RPM: 70
- 2. Net power (BHP) at 3600 RPM: 100
- 3. Net power (BHP) at 3600 RPM: 115
- 4. Net power (kW) at 3600 RPM: 84.9
- 5. Net power (kW) at 3600 RPM: 62.1

Specification

Model	1	2	3	4	5	6	7	8	9	10	11
Cylinders	4	4	4	4	4	4	4	4	4	4	4
Stroke (mm)	140	140	140	140	140	140	140	140	140	140	140
Injection system	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
Cooling system	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Lubrication	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump	Dry sump
Net power (kW)	36.8	51.4	62.1	73.5	84.9	96.3	107.7	119.1	130.5	141.9	153.3
Net power (BHP)	50	70	85	100	115	130	145	160	175	190	205
Max. gross torque	130	130	130	130	130	130	130	130	130	130	130



PERKINS DIMENSIONS

- 1. Net power (kW) at 3600 RPM: 70
- 2. Net power (BHP) at 3600 RPM: 100
- 3. Net power (BHP) at 3600 RPM: 115
- 4. Net power (kW) at 3600 RPM: 84.9
- 5. Net power (kW) at 3600 RPM: 62.1
- 6. Net power (kW) at 3600 RPM: 51.4
- 7. Net power (BHP) at 3600 RPM: 70
- 8. Net power (kW) at 3600 RPM: 36.8
- 9. Net power (kW) at 3600 RPM: 51.4
- 10. Net power (BHP) at 3600 RPM: 70
- 11. Net power (kW) at 3600 RPM: 84.9

All dimensions given in this table in mm, unless stated otherwise. All dimensions are given in mm unless otherwise stated.

Perkins Engines Limited
 1000 Station Road
 Weybridge, Surrey, Middlesex TW20 2EX, UK

4.203 Arç Makina & Perkins engines

63 BHP 2600 RPM

4.203 V

VEHICLE DIESEL



1400	52.80
1500	52.70
1700	50.50
2000	48.50
2200	46.50
2400	44.50
2600	42.50
2800	40.50
3000	38.50

Model: 4.203 V (4.203)

Capacity	12.5
Power	45.7
Rated speed	2600
Rated torque	1000
Rated rpm	2600
Rated power	33.5
Rated torque	1000

Specification

The engine is designed for vehicle applications where engine capacity 1.800 and 4.200 cc, and it is suitable for 4 to 4.5 ton, construction is for very competitive design, low maintenance, and easy assembly. It is suitable for use in all types of construction, mining and general industry. The engine complies with all standards and specifications of various countries.

Model	4.203 V (4.203)
Stroke	120 x 130 mm
Number of cylinders	4
Cylinder arrangement	Vertical in line
Rated volume	2000 - 4.200 litres
Code	4.203 V
Equipment code	10.0.1



GENERAL ARRANGEMENT

1	1	1000	1	1000
2	2	1000	2	1000
3	3	1000	3	1000
4	4	1000	4	1000
5	5	1000	5	1000
6	6	1000	6	1000
7	7	1000	7	1000
8	8	1000	8	1000
9	9	1000	9	1000
10	10	1000	10	1000

PERKINS **ARÇ MAKINA**

Perkins Engines Limited

PERKINS

www.perkins.com

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www.perkins.com

Perkins MARINE POWER

4.236(M)



The 85 horsepower 4 cylinder diesel gives you reliable, durable and safe performance with compact size and low weight.

Auxiliary distributor type fuel injection system provides even fuel flow for smooth performance. An automatic advance and retard mechanism controls fuel flow and valve timing. Over throughout the load range. And the Perkins™ 4.236 combustion system means unsurpassed top fuel economy.

Marine models are designed for smooth operation from cranking. And are designed for dependability with features like a closed fresh water cooling system for increased corrosion.

The 4.236(M) is an example of what a modern engine can provide plenty of easy maintenance when you need it, and doesn't get in your way when you don't.

85 bhp

General Data

Bore and Stroke: 3.875 in x 4.625 in
Dis. of cylinder: 4, prime
Compression: 20.5:1 to 21
Cycle: 4
Aspiration: Naturally aspirated
Maximum shaft horsepower: 79 kw
Cooling system: Closed marine
Compression ratio: 20:1
Rotation: L/R

Fuel pump: Rotary distributor type
Governor: Mechanical
Cooling: Heat exchanger fresh water cooled
Weight: 340 lb
Electrical: 12 volt, 80 amp alternator
Power take off: Full engine torque from 1000 and governor stop
Installation angle: 0° to 15°

 Perkins
Engine

4.236(M) MARINE DIESEL

Design Features and Standard Equipment

Cylinder Block—Cast-iron, cast into 200 °C die-cast alloy. In-line 6-cylinder block allows convenient installation for engine service.

Cylinder Covers—Cast in cast-iron. Interchangeable with other 4.236(M) 6-cylinder marine diesels. Also cast into 200 °C die-cast alloy. In-line 6-cylinder covers are interchangeable with other 4.236(M) 6-cylinder cast iron covers.

Camshaft—Forced lubrication system with 65 °C die-cast alloy. In-line 6-cylinder camshaft is interchangeable with other 4.236(M) 6-cylinder cast iron camshafts.

Wrist Pin—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron wrist pins. Piston Pin—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron wrist pins. Piston—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron pistons.

Connecting Rods—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron connecting rods. Piston Pin—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron wrist pins.

Wrist Pin—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron wrist pins. Piston—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron pistons.

Wrist Pin—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron wrist pins. Piston—Cast iron. Cast in cast-iron wrist assembly. Interchangeable with other 4.236(M) 6-cylinder cast iron pistons.

Optional Equipment

- Cast iron 300-psi (21-bar) or 400-psi (28-bar) cast iron hydraulic pump. Interchangeable with other 4.236(M) 6-cylinder cast iron pumps.
- Cast iron 300-psi (21-bar) or 400-psi (28-bar) cast iron hydraulic pump. Interchangeable with other 4.236(M) 6-cylinder cast iron pumps.
- Cast iron 300-psi (21-bar) or 400-psi (28-bar) cast iron hydraulic pump. Interchangeable with other 4.236(M) 6-cylinder cast iron pumps.

Dimensions (Physical)



3600 rpm at 2000 rpm



4.236(M) Performance

Perkins 4.236(M) Marine Diesel engine performance is shown in the graph on the right. The graph shows torque and power curves for the 4.236(M) 6-cylinder cast iron engine.

Perkins 4.236(M) Marine Diesel engine performance is shown in the graph on the right. The graph shows torque and power curves for the 4.236(M) 6-cylinder cast iron engine. The graph shows torque and power curves for the 4.236(M) 6-cylinder cast iron engine. The graph shows torque and power curves for the 4.236(M) 6-cylinder cast iron engine.

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Perkins
Engines

Perkins VEHICLE POWER

4.236



A compact diesel of great power to weight ratio, the 4.236 diesel has a maximum speed governed at 2000 rev/min with 50% torque reserve up to 1800 rev/min. Compression is increased with turbocharging for extra torque, improved responsiveness with variable valve, large cast aluminium construction and a gear timing system for maintenance.

61 kW/82 bhp
57,5 kW/77 PS

General Data

Model/Type: 4.236 (D4236) 4-Cylinder Diesel Engine
Displacement: 4.236 l
Cylinder arrangement: 4 in line
Crank: 4 stroke, 4-cylinder, inline
Valvetrain: Overhead Valve, Direct Injection
Compression ratio: 16.1:1
Injection system: L-List 2
Injection: Overhead valve, 4000 RPM
Fuel pump: In-line
Governor: Mechanical

Starting: Electric
Dimensions: 1000 mm (height)
Weight: 400 kg (dry wt)
Dimensions: 1000 mm (height)
Power output: Cumulative horsepower (61 kW)
and torque up to 8000
rpm (maximum) Output: Cumulative 500 HP
Output: Cumulative 370 kW (maximum)

Perkins
Engine

4.238 VEHICLE ENGINE



Rating standard 1. ISO 1585 / 2nd 1. ISO 1585
2. ISO 1585/1.5.1



Rating standard 1st ISO 1585

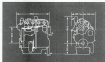
Over 200 options for the 4.238 engine allow it to be adapted to suit the needs of your application. The 4.238 engine is available with a wide range of options to suit your needs. For more information, contact your local distributor.

Options

Standard options include inlet and exhaust manifolds, all five positions of service, exhaust pipes and air compressors, exhaust pipes, control panel, water, alternator, hydraulic pump, and more. A range of mounting brackets and control arms is also available.

The 4.238 is available in the Standard/Control Series.

Dimensions



PERFORMANCE



Perkins

THE 4.238 IN DIESEL

4.236 Drag Motors**80 BHP 2800 RPM**

1500 - 2000 RPM 1000 - 1500 RPM

engines**4.236V**

VEHICLE DIESEL

**Specifications at a glance:**

● Type	4.2
● Bore	80mm
● Stroke	100mm
● Compression ratio	21:1
● Max. torque	150 lb-ft @ 1700 RPM
● Max. horsepower	80 HP @ 2800 RPM

Specification

This engine is suitable for vehicles with gross vehicle weight between 10,000 and 15,000 lb., giving a payload capacity of up to 3,000 lb. It is equipped in right-hand-drive, left-hand-drive or front-wheel-drive configurations. The 4.236V engine is a 4-cylinder, turbocharged, 4-cylinder engine with a cast-iron block and aluminum cylinder heads. It is equipped with a 150-hp, 2800-rpm turbocharger and a cast-iron water pump. The engine is equipped with a cast-iron oil pan and a cast-iron timing cover. The engine is equipped with a cast-iron timing cover and a cast-iron timing cover. The engine is equipped with a cast-iron timing cover and a cast-iron timing cover.

Block	Cast iron (2800 RPM)
Cylinder	Cast iron (2800 RPM)
Number of cylinders	4
Cylinder arrangement	Vertical in line
Block material	Cast iron (2800 RPM)
Block	Cast iron
Compression ratio	21:1
Injection system	Direct injection

**ENGINE MOUNTING**

●	11	1500-2100 RPM
●	12	1500-2100 RPM
●	13	1500-2100 RPM
●	14	1500-2100 RPM
●	15	1500-2100 RPM
●	16	1500-2100 RPM
●	17	1500-2100 RPM

PERFORMANCE AND SPECIFICATIONS**Performance and Specifications**

PERFORMANCE AND SPECIFICATIONS
 4.236V DIESEL ENGINE
 80 BHP 2800 RPM

PERKINS Turbo T 4.236

Neuer Perkins-Dieselmotor mit Turbosaufrüstung

New Series Diesel Engine with Turbocharger

Das neueste Mitglied der Perkins-Turbo-Reihe ist ein Dieselmotor mit Turbosaufrüstung, der für die Leistungssteigerung von Dieselmotoren entwickelt wurde. Die Perkins-Turbosaufrüstung ist ein Turbokompressor, der die Luft verdichtet, die in den Zylinder des Motors einströmt. Dies ermöglicht es, mehr Kraftstoff in den Zylinder zu spritzen, was zu einer Leistungssteigerung führt. Der Turbokompressor ist mit einem Turbolader verbunden, der die Abgasenergie des Motors nutzt, um die Luft zu verdichten. Dies ermöglicht es, die Leistung des Motors zu steigern, ohne die Drehmomente zu erhöhen.

Der neue Perkins-Dieselmotor mit Turbosaufrüstung ist ein Dieselmotor mit einer Zylinderzahl von vier und einer Zylinderbohrung von 100 mm. Die Zylinderlänge beträgt 110 mm. Der Motor hat eine Nennleistung von 26 kW bei 2600 U/min. Die Drehmomente betragen 20 Nm bei 1500 U/min und 22 Nm bei 2000 U/min. Der Motor ist für den Einsatz in verschiedenen Anwendungen geeignet, wie zum Beispiel in Baumaschinen, Landmaschinen und in der Industrie. Der Motor ist auch für den Einsatz in Booten geeignet. Der Motor ist ein Dieselmotor mit Turbosaufrüstung, der für die Leistungssteigerung von Dieselmotoren entwickelt wurde.

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Neuer Motor

New Engine

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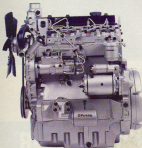
26 kW @ 2600 rpm

Perkins Diesel Engine
Turbocharger
26 kW @ 2600 rpm
20 Nm @ 1500 rpm
22 Nm @ 2000 rpm

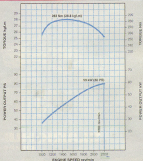


96,5 ps 2600 rpm

PERKINS 4.41



PERKINS 4.41 (4.236 Family)
60 kw 80 PS 2200 RPM



Power and torque curves for new Perkins 4.41 engine.