0.8KW 12V Air Diesel Engine One Cylinder Aircooled Diesel Engine

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GET
- Certification: ISO CE
- Price: Negotiable
- Delivery Time: 15-20 workdays
- Payment Terms: LC, T/T, PayPal, Western Union, Small-amount payment, Money Gram

Product Specification

- Type: Single Cylinder, Vertical, Four-stroke, Direct Injection, Air-cooled
- Borexstroke: 73x59mm, 78x62mm, 86x72mm
- Displacement: 247ml, 296ml, 418ml
- Compression Ratio: 20:01, 20:01, 19:01
- Rated Power(kw/rpm): 3.5/3000-3.8/3600 3.68/3000-4/3600 5.7/3000-6.3/3600
- Rated Power(hp/rpm): 4.8/3000-5.2/3600, 5.0/3000-5.4/3600, 7.8/3000-8.6/3600
- Rated Speed(rpm): 3000/3600
- Lowest Rotation Speed At Zero Load: ≤1300r/min
- Lubricating System: Pressure Splashed
- Starting System: Recoil Start/electric Starter
- Rotation Direction(face To The Output Axle): Anticlockwise
- Fuel Type: 0#(summer),10#(winter),35#(chillness)

Our Product Introduction

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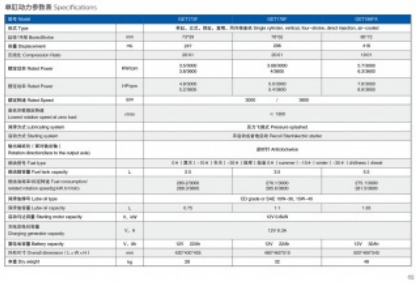
Product Description

GET78FE One Cylinder Air Cooled Diesel Engine High Speed

The working principle of a single-cylinder air-cooled diesel engine is based on the principles of internal combustion. Here is a step-by-step explanation of its operation:
Intake Stroke: The process begins with the downward movement of the piston within the cylinder. As the piston moves downward, it creates a vacuum inside the cylinder, drawing in air through the intake valve. The intake valve opens, allowing fresh air to enter the combustion chamber.
Compression Stroke: Once the piston reaches the bottom of the intake stroke, it starts moving upward, compressing the air trapped inside the combustion chamber. As the piston moves upward, both the intake and exhaust valves remain closed, sealing the combustion chamber.
Fuel Injection: Near the end of the compression stroke, fuel is injected into the combustion chamber. In a diesel engine, fuel is injected directly into the chamber at high pressure. The heat generated during compression causes the fuel to ignite spontaneously.
Power Stroke: As the fuel ignites, it combusts rapidly, generating a high-pressure mixture of expanding gases. This combustion pushes the piston downward with considerable force, creating power. The power stroke is the phase where the engine produces usable work.
Exhaust Stroke: After the power stroke, the piston starts moving upward again, pushing the burned gases out of the cylinder through the exhaust valve. The exhaust valve opens, allowing the gases to exit the combustion chamber and the cylinder.
Repeat Cycle: The exhaust stroke completes the four-stroke cycle (intake, compression, power, and exhaust) for a single revolution of the engine. The process repeats continuously as long as fuel is supplied and the engine is running.
During the operation of a single-cylinder air-cooled diesel engine, the cooling fins on the cylinder and sometimes the cylinder head facilitate heat dissipation. Airflow across the fins, generated by fans or natural convection, helps cool the engine and prevent overheating.
The air-cooled design eliminates the need for a liquid cooling system, simplifying the engine's construction and reducing maintenance requirements. However, it also means that proper airflow and cooling are essential to ensure the engine operates within optimal temperature ranges.

Model	GET173F	GET186FA	GET178F
Bore x Stroke mm	296 x 418	-	-
Displacement mL	247	-	-
Compression Ratio	13.5/3000	3.68/3000	5.7/3000
Rated Power KW/rpm	4/3600	6.3/3600	3.8/3600
Rated Power HP/rpm	5.2/3600	5.4/3600	8.6/3600
Rated Speed/≤r/min	-	-	≤1300
Lubricating system	Pressure splashed	-	-
Starting system	Recoil Start/electric starter	-	-
Rotation direction(face to the output axle)	Anticlockwise	-	-
Fuel type	2.5L,3.5L,5.5L diesel	-	-
Fuel consumption/related rotation speed(g/kW.h///min)	288.3/3600,285.6/3600,281.5/3600	-	-
Lube oil type	CD grade or SAE 10W-30,15W-40,0.75,1.65L1.1	-	-
Lube oil capacity	12V,0.8kWV,kW	-	-
Starting motor capacity	V,A12V8.3ACharging generator capacity	-	-



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