



SUBARU **FI** series



## Robin EH engines



Friendly to people,  
 Friendly to society  
 Friendly to the earth,  
 The next-gen eco-engine for professionals.

# EH72FI

## The Next-Gen General Purpose Engine with the Newly Developed Electronic Fuel Injection System

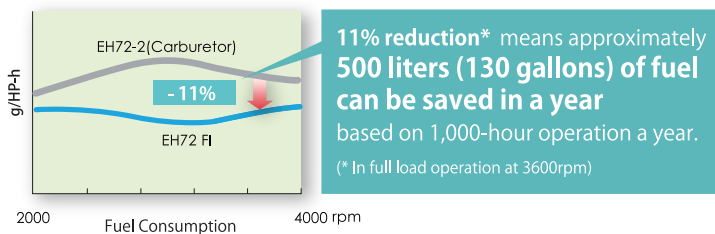
The new EH72FI has been developed as a high performance model, which offers outstanding environmental performance as well as excellent running performance and user-friendliness, while achieving superb mountability for machineries.

### Higher Power Output

High power output and quick response, which are known as advantages of electronic fuel injection, are realized by increasing inlet air volume as well as optimizing fuel injection management.

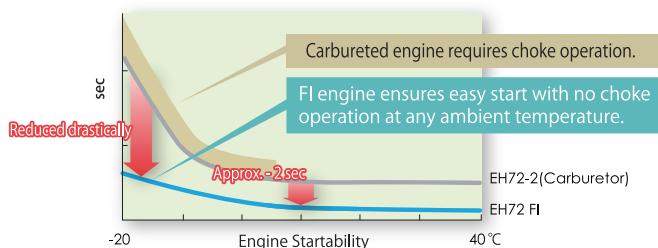
### Exceptional Fuel Economy

The FI system improves fuel economy across whole speed range by optimizing fuel distribution.



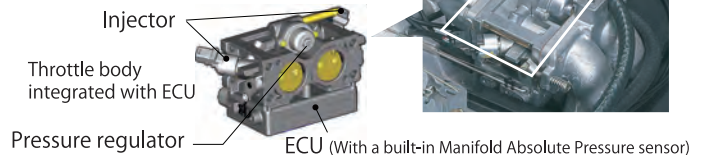
### Easy and Surefire Start

The FI system ensures easy and surefire start-up performance by optimizing fuel supply with using engine temperature sensor. It has achieved to reduce engine start-up time drastically than carbureted engine, especially at cold temperature.\*



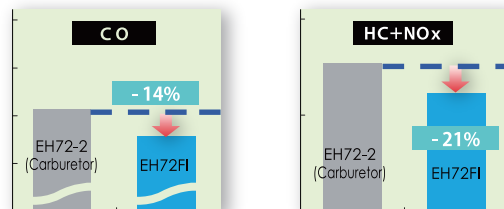
\* Engine start-up time depends on load, battery condition, and so on.

### Electronic Fuel Injection System (FI system) integrated with ECU (Engine Control Unit)



### Low Emission

The FI system drastically reduces harmful substances, such as CO and HC+NO<sub>x</sub>, by optimizing fuel injection management. As a result of it, the FI engine **meets EPA and CARB Tier 3** by a wide margin.



### Excellent Response and Acceleration

#### Excellent running performance at any time, on any condition

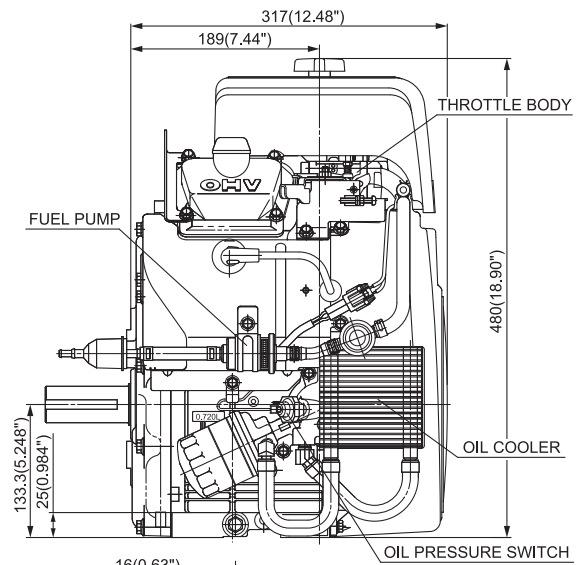
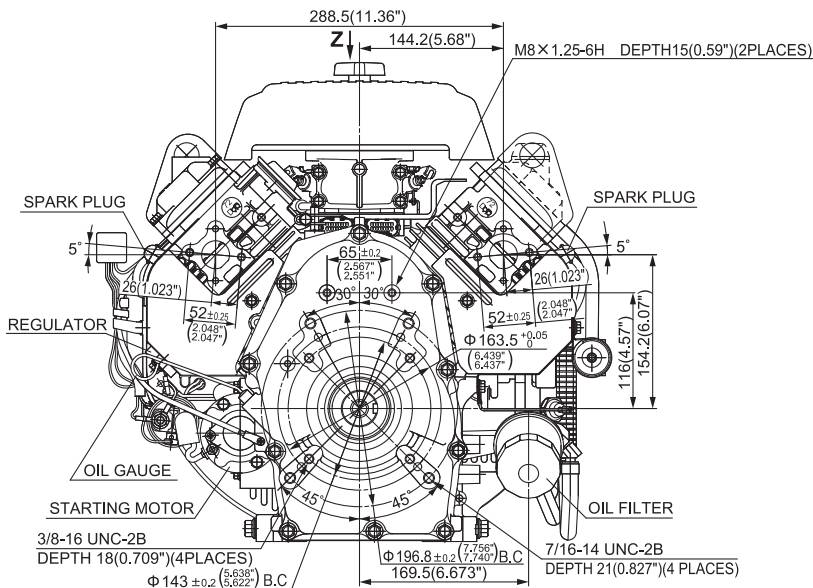
The FI system maintains optimum fuel supply by detecting every change on engine speed or load, such as sudden acceleration/deceleration or sharply applied load.

#### Automatic high altitude adjustment

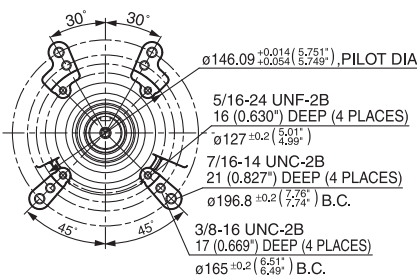
The FI system maintains optimum fuel supply by detecting atmospheric pressure. Troublesome manual adjustment at high altitude is no longer needed.

### Compact Design and Easy Installation

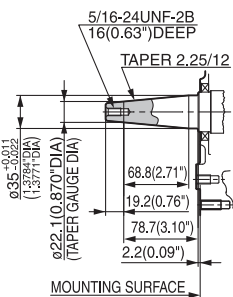
- By adopting the ECU integrated with throttle body of FI system, The EH72FI has achieved very compact design, which is **same envelope size as carbureted engine**, to keep superb mountability for machineries. On top of that, **no external ECU** is required on machinery side.
- By adopting In-Line fuel pump, i.e. electromagnetic fuel pump incorporated in the fuel line, **no additional fuel pump** is required in fuel tank on machinery side. (Only fuel return line is required.)



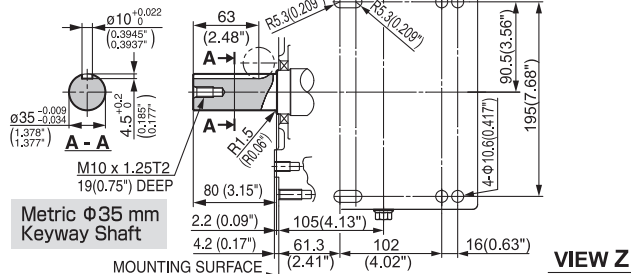
**METRIC FLANGE**



**SAE-B FLANGE (OPTION)**



**SAE - WG  
Generator Shaft**



**SPECIFICATIONS**

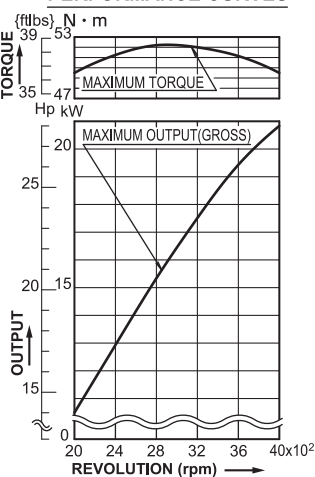
Model	EH72 FI
Type	Air-cooled, 4-Stroke, V-twin cylinder, Horizontal PTO shaft, OHV, Gasoline engine
Number of Cylinders - Bore x Stroke mm (in.)	2-84x65 (3.31x2.56)
Piston Displacement ml (cu.in.)	720 (43.9)
Continuous Output kW[PS](HP)/rpm	12.7 [17.2](17.0)/3000 14.9 [20.3](20.0)/3600
Maximum Output kW[PS](HP)/rpm	Net 17.9 [24.3](24.0)/3600 Gross 19.4 [26.4](26.0)/3600 20.9 [28.4](28.0)/4000
Maximum Torque N·m[kgf·m](lb·ft)/rpm	52.2 [5.32](38.5)/2800
PTO Shaft Rotation	Counterclockwise (from PTO shaft side)
Fuel	Automobile unleaded gasoline
Fuel Tank Capacity liter (US gal.)	—
Lubricant	Automobile oil SAE#20, #30 or 10W-30, class SE or higher
Oil Capacity liter (US gal.)	1.55 (0.41) (including oil filter)
Fuel System	Electronic fuel injection
Ignition System	Flywheel magneto (solid state)
Spark Plug	NGK BPR5ES
Starter	Electric starter
Governor	Centrifugal flyweight type
Lubrication System	Full pressure with Trochoid pump, Oil cooler and Spin-on, full-flow oil filter
Air Cleaner	Dual element type
Charging Capacity V-A	12 - 15
Dry Weight kg (lb)	46 (101.3)
Dimension Length x Width x Height mm(in.)	317x477x480 (12.48x18.78x18.90)

**OPTIONS**

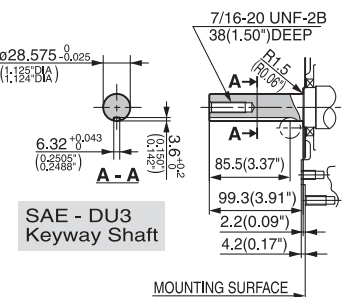
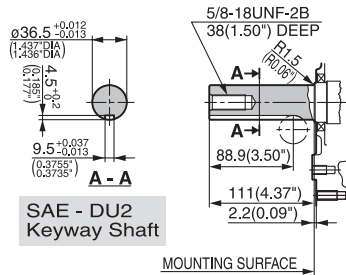
Model	EH72 FI
Charging Capacity (STD:12V-15A)	12V-30A
Air Cleaner (STD:Dual element type)	Heavy duty type (Canister air cleaner)
Muffler (STD:Less)	High mount type, Side mount type (Left or right), Exhaust deflector, Spark arrestor
Speed Control (STD:Lever)	Cable (Manual & Remote) speed control, High speed fix
Oil Alert	Oil pressure switch (STD) + Control box as option

\* Specifications are subject to change without notice.

**PERFORMANCE CURVES**



The horse power ratings shown herein are established in accordance with the Society of Automotive Engineers Code-J1349.



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