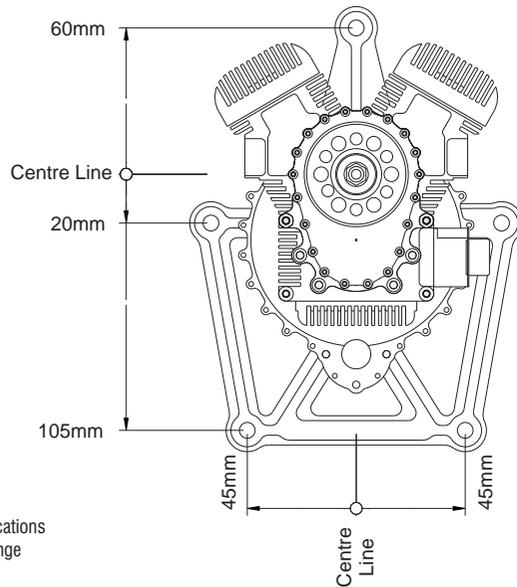
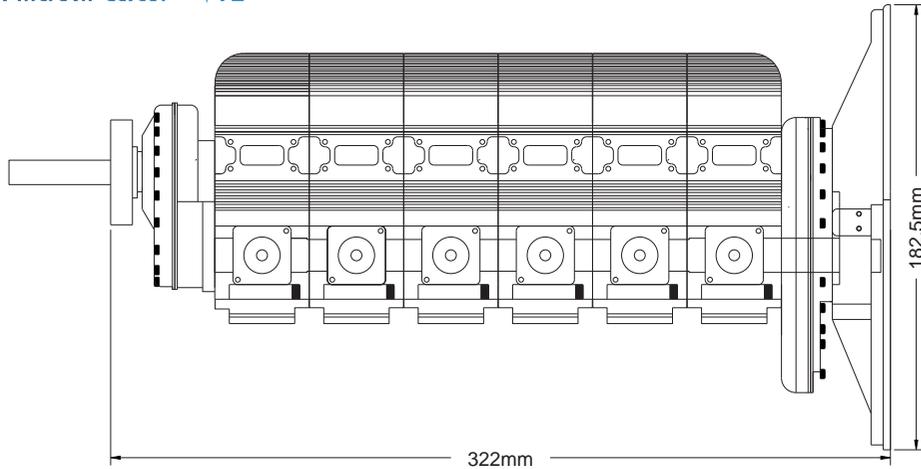


# DIMENSIONS

## PHILTECH LESLEY - V12



Prices and specifications are subject to change without notice.

### Acknowledgments

Blackart Automation for crankshaft design  
Swat Odstracilic for display stand  
Brian Dennis for Electronics  
John Kellett for prototype building  
New Artworx for brochures & web design  
Lesley Morton for Funding

### Payment Options

Cash, Visa, Mastercard & Electronic Funds Transfer  
We also have a lay-by facility

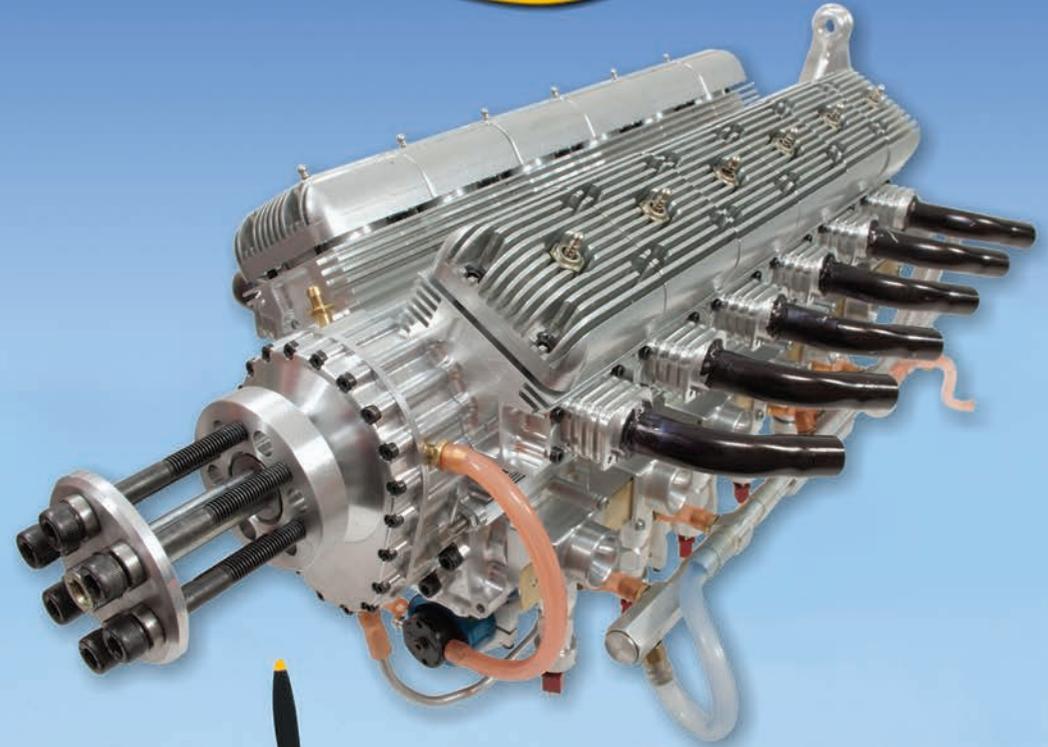
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# Introducing the LESLEY V12 ENGINE by Philtech



THIS ENGINE IS SUITABLE  
FOR 1/5TH SCALE AIRCRAFT



AUSTRALIAN MADE

# REALISTIC SOUND & SCALE APPEARANCE

# LESLEY V12 ENGINE

## TECHNICAL SPECIFICATIONS:

■ Bore	21.6mm
■ Stroke	24.5mm
■ Capacity	108cc
■ No. of Cylinders	12
■ Weight	5.5kg (Inc. Engine Management System)
■ 2 stroke	
■ Ringed Pistons	
■ Air Cooled	
■ Max Engine Speed	6000 RPM
■ Idle Speed	1200 RPM
■ Maximum Thrust	12Kg
■ Recommended Fuel	5-10% Nitro glow fuel with synthetic oil

### Recommended Prop size

- Gearbox ratio of (1.08 to 1) 3 blade, 24 inch x 10 pitch
- Gearbox ratio of (1.25 to 1) 4 blade, 24 inch x 12 pitch

## FEATURES:

This engine is suitable for 1/5th scale aircraft

### Fuel Injection

A unique feature of the Lesley V12 engine is its fuel injection system. Fuel Injectors are controlled by the Engine Management System (EMS). The EMS provides automatic tuning using a sensor for each cylinder to monitor exhaust temperature and a sensor on the crankshaft to determine the RPM.

This provides you with trouble free "Turn-Key" tuning & operation, making it virtually impossible to flood the engine.

Needle valves are a thing of the past. The EMS dynamically regulates fuel flow and matches it to the RPM so you get an even air / fuel mix. This provides smooth engine performance, whether idling on the runway or at full throttle even during aerobatics.

### Electric Fuel Pump

An electric fuel pump is supplied to provide fuel pressure. *(not illustrated)*

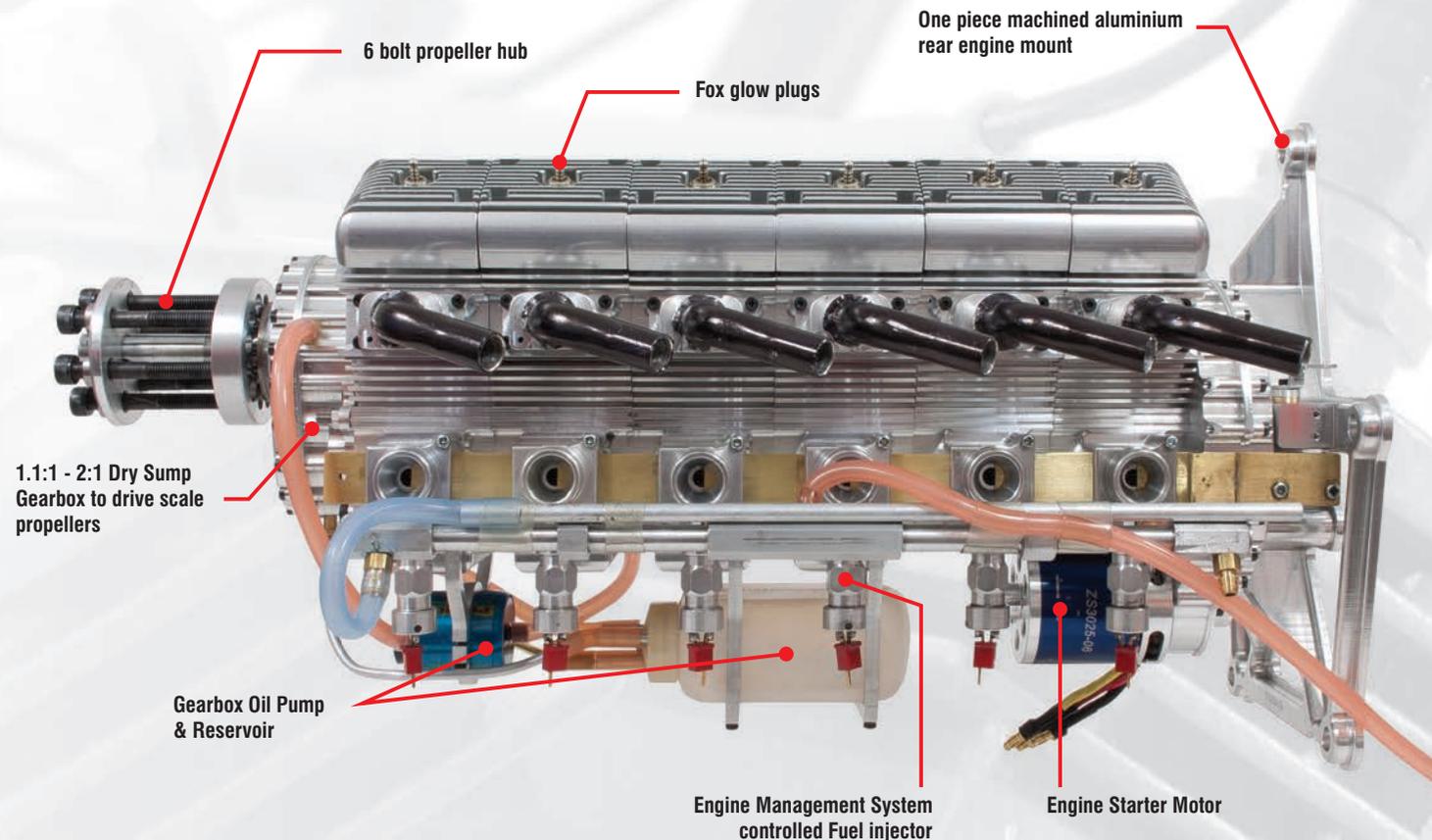
### Gearbox

A reduction gearbox reduces prop speed by a ratio from 1.08:1 up to 2:1. This allows for a variety of scale propellers.

Extensive research has led to the development of a high speed miniature gearbox that incorporates a dry sump lubrication system using commonly available automatic transmission fluid.

### Rear Engine Mount

The rear engine mount is machined from one piece of aluminium, producing a mount that is both strong and light weight. The Philtech radial engine mount provides for easy fitting to the fire wall.



1.1:1 - 2:1 Dry Sump Gearbox to drive scale propellers

Gearbox Oil Pump & Reservoir

### Authentic Scale Exhaust pipes

Each Philtech Lesley V12 engine is shipped with one set of exhaust pipes. Select from our range of pipes based on the P51 Mustang, Supermarine Spitfire, Hawker Hurricane or Curtis P40 Warhawk when you place an order. Exhaust pipes are also sold separately so you can mount your Philtech Lesley V12 in a number of different aircraft.

### Electric Starter

The rear mounted electric starter provides realistic and trouble free starting. The engine is remotely started by plugging in our Field Box via a power cable and pressing the starter button. The Field box is included with the Lesley V12 Engine. *(Field Box not illustrated)*

### Propeller Hub

The propeller hub is designed on a standard 6 bolt arrangement with M5 screws. This provides the business end of the engine with that scale look you have long sought after.

### Stroke

Unlike the majority of model engines (2 & 4 stroke), this engine is a long stroke configuration, i.e the stroke is larger than the bore. This results in higher torque at lower RPM enabling you to drive scale multi-blade propellers and produce that realistic V12 sound.

### Glow plugs

Fox Glow plugs are provided along with a wiring loom connecting them to the EMS which powers them. *(Wiring loom not illustrated)*