

WAE 342 Hurricane UAV engine

Key features

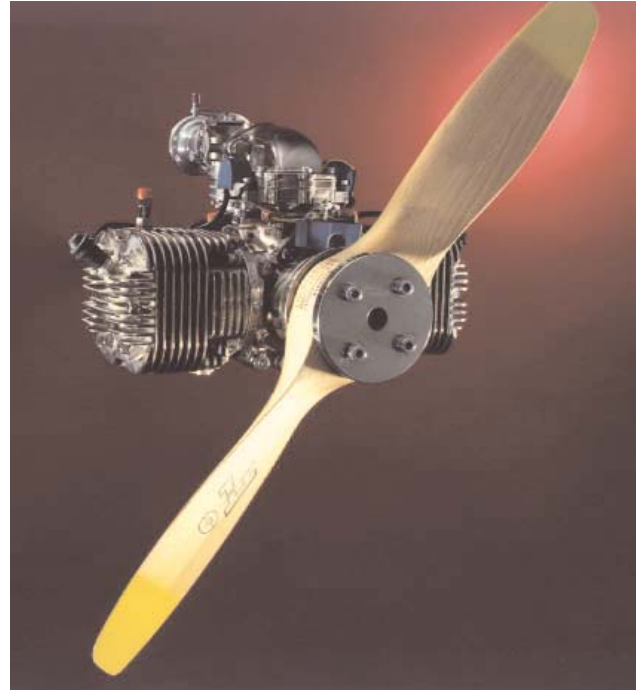
- ▾ **Reliable**
Proven in many thousands of hours in-service use worldwide
- ▾ **Versatile**
Suitable for tractor and pusher applications either upright or inverted without modification
- ▾ **Excellent power to weight ratio.**
Specific weight down to 0.39 kg/kw (0.65 lb/bhp).

Description

Meggitt Defence Systems, are specialist manufacturers and operators of free flying and remotely piloted aerial targets, unmanned air vehicles and associated equipment for defence departments and defence equipment manufacturers worldwide. Meggitt Defence Systems operates stringent quality standards meeting the requirements of ISO 9001-2000

The WAE-342 engine and its ancillary equipment are specifically designed for reliability, good starting and good specific performance, coupled with light weight and low cost. All parts have been designed and tooled for quantity production and the complete assembly has been proven by an extensive development and test programme in addition to many thousands of hours of in-service use, worldwide

The basic engine is the latest in a series of 66 mm bore twin cylinder, two cycle engines that have been produced in considerable numbers over the past 20



years for a number of aerial target and surveillance unmanned air vehicles (UAV's), including "Skeet", "Snipe", and "Banshee" targets; "Sparrowhawk", "Mart", "Phoenix" and "Spectre" UAV's plus many others.

All major components used in the WAE 342 engine are of Meggitt design and manufactured on Meggitt tooling. To reduce costs to an absolute minimum we have, of course, used many of the manufacturing techniques that have been developed and proved over many years on chain saws and motorcycles, and we also incorporate many high production volume components such as spark plugs, bearings and carburettors. We are therefore able to offer a basic low cost, high quality power unit, that can easily be applied to meet individual customer requirements.

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SPECIFICATION

Physical Characteristics:

Swept Volume: 342 cc
 Bore: 66.0 mm
 Stroke: 50.0 mm
 Stroke/Bore ratio: 0,75 : 1
 Compression ratio 9,2 : 1
 Weight: 7,5 kg (Core Engine, with carburettor and ignition system but less exhaust)
 Rotation: Counter-clockwise when viewed from power take-off end.

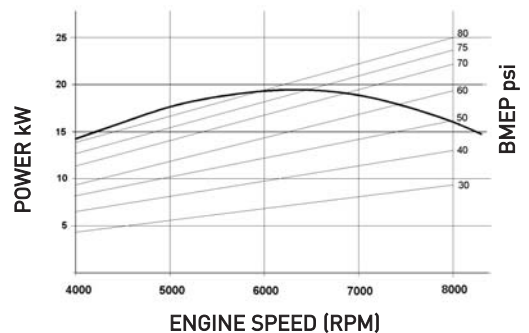
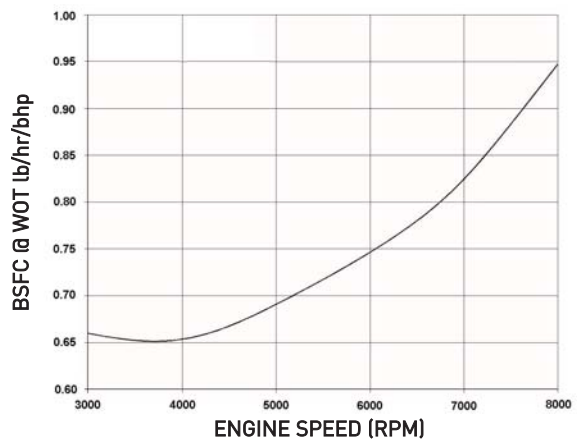
Performance:

Power: 26.0 bhp @ 6,750 rpm
 SFC: Better than 135.176 ug/J (0.8 lb/bhp at rating).

Operating Environment:

Temperature: -30° C to +50° C
 Altitude: >5,000 metres
 Fuel: Leaded (98 Octane) with a 4% mixture of a pre-mix, fully synthetic 2 cycle oil.

Optional Equipment: 900 Watt alternator



This data may be changed without notice and is not binding.

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