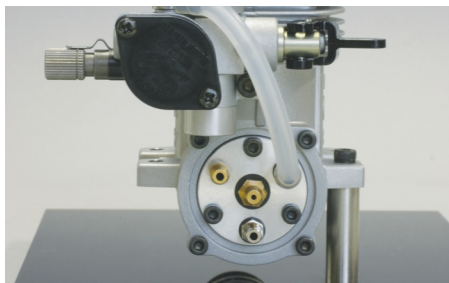# O.S. ENGINE

NEW PRODUCTS

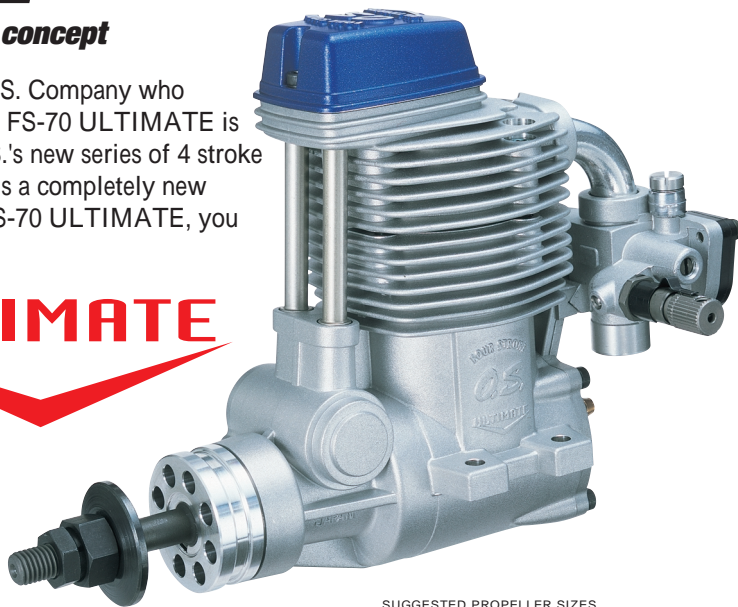## High performance 70 class 4 stroke engine for aircraft use

FS-70 ULTIMATE

Light weight and compact size being the design concept

This exciting new 4 stroke engine has been born from the O.S. Company who pioneered the volume production of the 4 stroke engine. The FS-70 ULTIMATE is an epoch making engine which forms the foundation for O.S.'s new series of 4 stroke engines. Although based on the current Surpass series, this is a completely new lighter weight more powerful engine. Once you fly with a FS-70 ULTIMATE, you will realize why it was named the ULTIMATE.

ULTIMATE

The major feature is the use of a new "Pump System" incorporated in the back plate. This new pump system is actuated by the positive and negative crankcase pressure pulses. However, rather than drawing fuel, the pump pressurizes the fuel tank resulting in more constant and steady power regardless of the aircraft's attitude. The carburetor, in turn, is equipped with a regulator that stabilizes the pressurized fuel being fed to the carburetor and is not affected by heat.
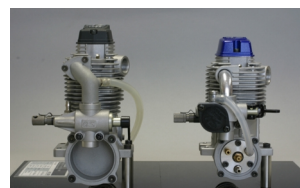
SUGGESTED PROPELLER SIZES

Aerobatic	Pattern
13x6	13x7 8

A "slide-valve" design carburetor is utilized for the first time on a 4 stroke engine which provides improved acceleration and deceleration characteristics.

The propeller drive hub has a "Gatling Gun" face, i.e. six holes have been drilled that in conjunction with lighter weight internal parts, help contribute to the engine's overall reduction in weight.

The photo shows how compact the FS-70 ULTIMATE is compared to the FS-70SII. The FS-70 ULTIMATE is also approximately 20% lighter.

FS-70 ULTIMATE Specifications

Displacement	Bore	Stroke	Output	Practical r.p.m.Range	Weight	Related Parts
11.45cc	27.7mm	19.0mm	1.1ps/11,000r.p.m	2,000 12,000	455g	Glow plugType F F-4020 Silencer/Exhaust headers Propeller locknut sets

The weight dose not include the related parts.

FS-70 Dimensions (mm)

A	B	C	D	E	F	G	H	J	S
45	20	104.8	54	104.6	59.5	35	49.5	86.6	UNF1/4-28

Dimensions (mm)

O.S. ENGINE LIVE STEAM LOCOMOTIVE