ELF ENGINE COMPANY
3055 N. E. Everett Street
Portland, Oregon
ELF “Single”

Model 10

Class “A”—Displacement .097 cu. in.

A modern high-compression engine designed for planes up to 4-foot wingspread and weighing up to 2 pounds. Notice the trim lines of its design. Location of the spark plug behind the cylinder head simplifies the cowling problem and protects the plug from breakage. All controls are grouped together behind the engine for greater safety and convenience.

All interior surfaces and moving parts are "micro-machined" for accuracy and perfect fit. There are no rings or gaskets in an Elf engine.

The "Single" can be inverted in 30 seconds without extra parts. Like all Elf engines, it has a reputation for quick, easy starting. An Elf-powered plane can be released in 10 seconds under full power.

SPECIFICATIONS

Type: 2 cycle, 3 port.
Displacement: .097 cu. in.
Operating Speed: 7,500-8,000 R.P.M.
Power: 1/12 H.P.
Bore: .468 in.
Stroke: .564 in.
Cylinder: Cast aluminum lined with carbon steel.
Pistons: Forged aluminum, "micro-machined".
Bearings: 4 main bearings.

Timer: Elf "No-Drag", fully enclosed.
Carburetor: Micrometer adjustment.
Air Filter: On carburetor intake.
Gas Tank: Transparent, 1/4 oz. capacity.
Mounting: Radial.
Weight: 3 oz., Flying wt. 5½ oz.
Price: Complete with 1/2 oz. Elf Coil and condenser... $16.50

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ELF “Twin”

Model 20

Class “A”—Total Displacement .198 cu. in.

The finest, most powerful class "A" motor you can buy. Ideally suited for contest flying and advanced builders, the Elf "Twin" delivers the power of a large motor within the limitations of class "A" displacement. It was designed for planes up to 5½-foot wingspread and weighing up to 4 pounds. Although it is a combination of two Elf "Singles", the "Twin" produces much more power than a single of the same total displacement because its greater cooling area enables it to run cooler, take in more fuel on each stroke and use light No. 40 oil for lubrication. It naturally runs more smoothly than a single cylinder engine due to the even distribution of weight and perfect balance of all moving parts.

SPECIFICATIONS

Type: 2 cycle, 3 port.
Cylinders: Two, opposed.
Total Displacement: 198 cu. in.
Operating Speed: 7,500-8,000 R.P.M.
Power: 3/4 H.P.
Bore: .468 in.
Stroke: .564 in.
Pistons: Forged aluminum, "micro-machined".
Bearings: 12-ball thrust bearing, two main bearings.

Timer: Elf "No-Drag", fully enclosed.
Controls: Grouped together behind the engine.
Carburetor: Micrometer adjustment.
Air Filter: On carburetor intake.
Gas Tank: Transparent, 1/4 oz. capacity.
Mounting: Radial.
Weight: 5 oz., Flying wt. 8½ oz.
Price: Complete with Elf "Twin" Coil and condenser... $31.50

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The Mighty

ELF “Four”

Model 40

Class “C”—Total Displacement .396 cu. in.

The Elf "Four" brings super power to class "C". America's finest model motor was developed from the Elf "Twin" and clearly demonstrates the superiority of high efficiency, small bore motors with multiple cylinders. The "Four" was designed for planes up to 10-foot wingspread, radio control planes, large model boats and racing cars. It is the first high speed motor in class "C" and the smoothest-running motor on the market. Its surging power easily swings a 12 or 13 inch prop at 7,500 R.P.M.

SPECIFICATIONS

Type: 2 cycle, 3 port.
Cylinders: Four, opposed.
Total Displacement: .396 cu.in.
Operating Speed: 7,500-8,000 R.P.M.
Power: 5½ H.P.
Bore: .468 in.
Stroke: .564 in.
Pistons: Forged aluminum, "micro-machined".
Bearings: Three main bearings, 12-ball thrust bearing.

Timer: Elf "No-Drag", fully enclosed.
Controls: Grouped behind and below engine.
Carburetor: Micrometer adjustment.
Air Filter: On carburetor intake.
Mounting: Radial.
Weight: 9 oz. Flying wt. 13 oz.
Price: Complete with Elf "Four" Coil and condenser... $49.50