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Propeller

Specifications

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**Hamilton Standard  
Propeller**

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## **Specifications**

Hamilton Standard  
Hydromatic Propellers.  
Construction.

Operation. 1. Speeder  
Rack Balancing Spring.  
2. Governor Speeder  
Spring. 3. Governor  
Flyweight.

## **Hamilton Standard Propellers - enginehistory.org**

The Hamilton Standard  
Hydromatic propeller  
introduced in the  
1930s was a significant

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advance over the counterweight, controllable pitch propeller. Application of oil pressure to both sides of the actuating piston provided increased capacity and the capability of feathering or unfeathering by a single control knob.

**Hamilton Standard  
Propeller, Three-  
Blade, Constant-  
Speed ...**

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The basic propeller control forces acting on the Hamilton Standard propeller are centrifugal twisting force and high pressure oil from the governor. The centrifugal force acting on each blade of a rotating propeller includes a component force that results in a twisting moment about the blade center line that tends, at all times, to move the blade

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toward low pitch.

## **Hamilton Standard Hydromatic Propellers (Part One)**

Hamilton Standard traces its roots back to the 1919 founding of the Standard Steel propeller Company in Pittsburgh, PA and Thomas F. Hamilton's founding the same year of his Hamilton Aero Manufacturing Company in

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Standard  
Milwaukee, Wisconsin.  
Hamilton Standard  
Ground Adjustable  
Flying in the skies in  
1929, 80% of the  
propellers were  
Hamilton Standard.

## **Hamilton Standard Propeller Information**

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## **Hamilton Standard Propeller Specifications**

The Hamilton Standard  
Hydromatic propeller  
represented a major  
advance in propeller  
design and laid the

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Standard  
Propeller  
Specifications

groundwork for further  
advancements in  
propulsion over the  
next 50 years. The  
Hydromatic was  
designed to  
accommodate larger  
blades for increased  
thrust, and provide a  
faster rate of pitch  
change and a wider  
range of pitch control.  
This

## **HYDROMATIC PROPELLER - ASME**

Hamilton Standard  
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(now a part of Collins Aerospace), an aircraft propeller parts supplier, was formed in 1929 when United Aircraft and Transport Corporation consolidated Hamilton Aero Manufacturing and Standard Steel Propeller into the Hamilton Standard Propeller Corporation. Other members of United Aircraft included Boeing, United Airlines, Sikorsky, and Pratt &

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Standard  
Whitney.

Propeller

## **Hamilton Standard - Wikipedia**

Four different propeller systems have had the honor of being used to help the C-130 take flight, including Curtis Electric propellers, three-bladed Aero products propellers, the four-bladed Hamilton Standard 54H60 and the six-bladed Dowty R391 propeller.

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However, all active C-130J aircraft employ the R391.

## **Getting to Know the 54H60 Propeller System**

We all know that the prop converts power to thrust. That's pretty basic. So let's consider some statistics. A -15 (93") has a prop disc area of: 47.17 square feet. A -9 (99") has a prop disc area of: 53.46 square feet. A -6

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(102") has a prop disc area of: 56.75 square feet. So... The -9 has 6¼ more sq ft of prop pulling you than a -15.

## **RARE Aircraft: WACO Propellers**

handling propellers. These include C-hooks, yoke assembly, spreader bar, lock mechanism, release cable and safety cable. (See Fig. 1-1.) I.  
Retainer Nuts and  
Spanner Wrenches

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Attach base plate assembly to Hamilton-Standard Propeller (See Fig. 1-4.) J. Hub Adapters-Used with some base plate assemblies for Aero products propellers.

## **Operating Manual and Maintenance Instructions**

All C-130B, E, and H versions of the Hercules family were delivered with some

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configuration of the Hamilton Standard 54H60 four- bladed propeller. Today's generation of the Hercules, the C-130J, is operating with the six-bladed Dowty R391 propeller.

## **VOL. 26, NO. 3, July - September 1999 Service News**

Placed on the ramp in front of the airplane is equipment that has been removed or

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Standard  
replaced. Note the four  
“cuffed” Hamilton  
Standard propeller  
blades along the right  
side of the photograph.  
They have been  
replaced with un-cuffed  
and polished Hamilton  
Standard “paddle”  
blades. More aviation  
photos by Allan Grant

### **propeller - How do blade cuffs help cool the engine ...**

The newly-formed  
Hamilton Standard

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Propeller Corporation, suffering from dwindling government contracts, scrambled for a new product to sustain the young corporation. Chief engineer Frank Caldwell's design for a hydraulic two-position, controllable-pitch, or hydro-controllable, propeller that patented in 1929 saved the company.

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**Propeller, 3-Blade,  
Metal | National Air**

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Propeller Parts Catalog  
Douglas DC-7C Manual  
- N.ro 199 Model 34E60  
. \$18.85. Compare.

Add To Cart. Hamilton  
Standard Aircraft  
Propeller Model

54H60-91 System  
Overhaul and Parts  
Catalog Manual - P  
5056. \$28.85.

Compare. Add To Cart.  
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Feathering Aircraft  
Propeller Manual -  
Boeing 314 - 1955.

## **Download Aircraft Propellers Manuals - Hamilton Standard**

...

Powered by the superb Hamilton Standard 54H60 four-bladed propeller system on the L-100, its performance is excellent, with a maximum takeoff weight of 155,000 lbs.

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and a payload of 51,000 lbs., it has a top speed of 355 mph and a cruise of 335, a service ceiling of 23,000 ft., and a rate of climb of 1,830 fpm. It also boasts a range of 1,800 mi.

### **54H60 Propeller System Archives - C&S Propeller**

Stockton Propeller provides maintenance/overhaul for an impressive

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range of brands and equipment, starting with the simple fixed pitch metallic propeller ranging through complexity to Hamilton-Standard Warbird Propellers and Hartzell Composite/Constant Speed Propellers, including governors.

## **Propeller Repair Services in Stockton, CA | Stockton Propeller**

Hamilton Standard  
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Propeller Identification.

2 HAMILTON

STANDARD

PROPELLERS. pdf), Text

File (. 1 Operation of

the ATR-42 and ATR-72

with the Pratt &

Whitney 120, 121, 124

and 127 engines, fitted

with the Hamilton

Standard 14 SF 5, 247

F, 14 SF 11, or 568 F

propellers, has been

evaluated by the FSB.

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