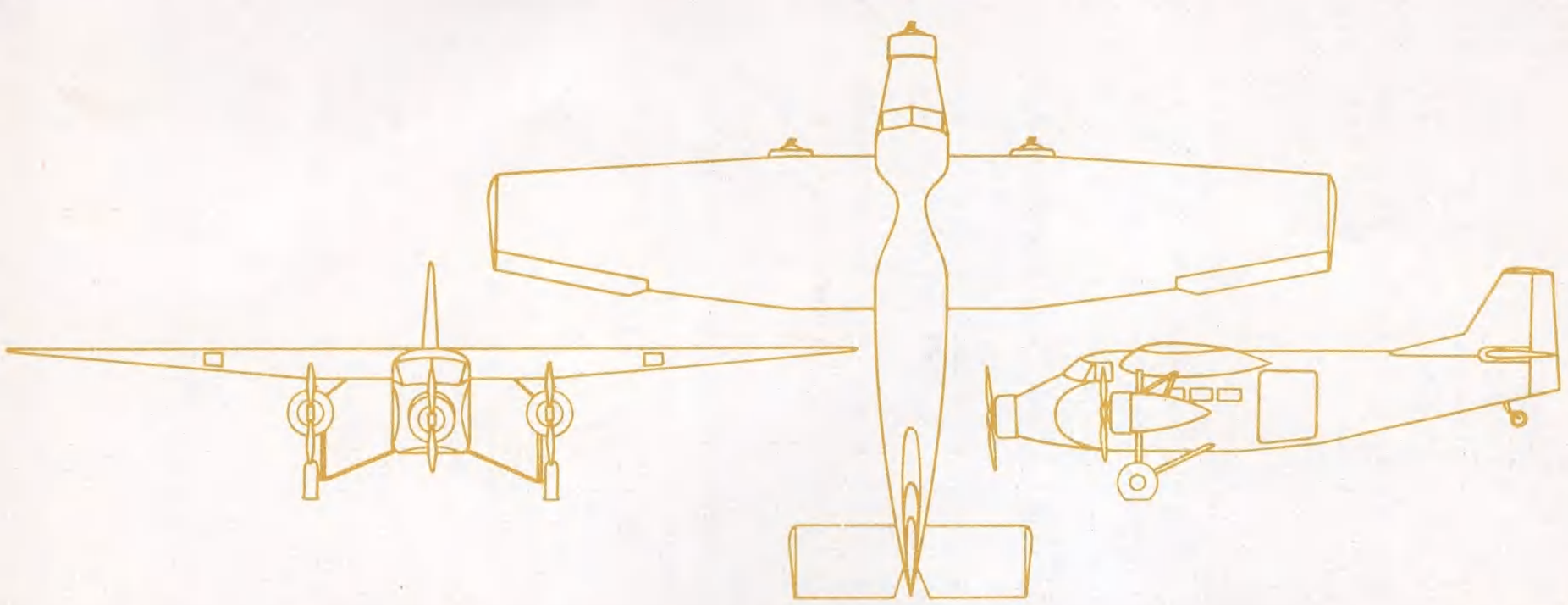
HAYDEN
AIRCRAFT CORPORATION

Presents



STOUT

the STOUT BUSHMASTER

Designed by William B. Stout, former vice-president of Ford Motor Company, and creator of the original Ford Tri-Motor airplane—now Director of Engineering and Chairman of the Advisory Board for Hayden Aircraft Corporation.

The Hayden Aircraft Corporation presents the all-new STOUT BUSHMASTER, an airplane possessing all of the capabilities which enabled the Ford Tri-Motor to write aviation history, PLUS many all-new features. The 1955 version will be a simple, grass-runway, freight-passenger airplane with high lift, short takeoff and landing capabilities. A high production rate is planned and the BUSHMASTER will come off the assembly line as a basic, rugged and reliable, airplane containing only the instrumentation and equipment necessary for contact flying in undeveloped regions. Optional equipment may be installed at the Hayden Modification Centers or by the purchaser. Usefulness, earning capacity, and minimum price were the primary design dictates.

The new features include: widening of the fuselage by 18 inches, thus increasing cargo space by 180 cubic feet; more powerful and lighter R985 Pratt & Whitney, 450 hp engines, with cowling for improved engine temperature control; modernization of cockpit; installation of hydraulic struts on the landing gear; a full swivel tail wheel; rerouting of control cables internally; addition of a large cargo door; strengthening the floor for concentrated loads; addition of wing flaps on later production models, and an improved vertical stabilizer.

The Ford Tri-Motor, early termed the "Tin Goose," was produced by the Stout Metal Airplane Company, a division of the Ford Motor Company, headed by William B. Stout.

After 29 years of service, and in an age of high speed transcontinental flight, more than thirty of the original 196 Ford Tri-Motors are being flown commercially. Their use varies from scheduled airline passenger service in the Great Lakes Region to jungle transport flying in South America.

The Tri-Motor was the first airplane to carry mail under private contract and to fly Admiral Byrd over the South Pole. The Stout Air Service operated an airplane between Detroit, Cleveland, and Chicago and carried 163,000 passengers without accident. In fact, there has never been a "Tin Goose" accident attributed to structural deficiency. The phenomenal safety and performance record of this dependable "workhorse" is being engineered into every BUSHMASTER.

Bushmaster

The BUSHMASTER has all-metal construction, consisting of corrugated aluminum skins riveted to the flanges of structural members. The wing contains three main spars with five auxiliary spars to reinforce the corrugated skin. Inter-spar stress distribution is accomplished by struts and diagonals instead of ribs. The BUSHMASTER has been designed to withstand severe operating conditions in remote areas, and to require only minimum maintenance.

This rugged, dependable, and versatile airplane is ideally suited for bush and jungle freight hauling; short haul airline service; crop dusting and timber spraying; feeder line passenger and freight service; aerial mining exploration; army field service; foreign conservation programs, and provincial territorial use. The BUSHMASTER is designed to be equipped with floats, skis, or combinations for other specialized requirements.

WIDENING OF THE CARGO DOORS AND FUSELAGE ALLOWS LOADING OF LARGE CRATES AND EQUIPMENT.

SPRAYING OF LARGE TIMBER LANDS IS BUT ONE OF THE MANY USES FOR THE VERSATILE BUSHMASTER.

Specifications

WEIGHT:

GROSS	12,500 lb
EMPTY	6,500 lb

PAYLOAD:

GROSS	6,000 lb

PERFORMANCE:

MAXIMUM SPEED	145 mph
CRUISING SPEED	125 mph
STALLING SPEED	45 mph*
TAKEOFF DISTANCE EMPTY	100 ft*
TAKEOFF DISTANCE GROSS	600 ft*
RANGE	500 mi

CIVIL AIR REGULATION: . . Part 3

*with flaps

WING AREA: . . . . . 843 sq ft

POWER PLANT:

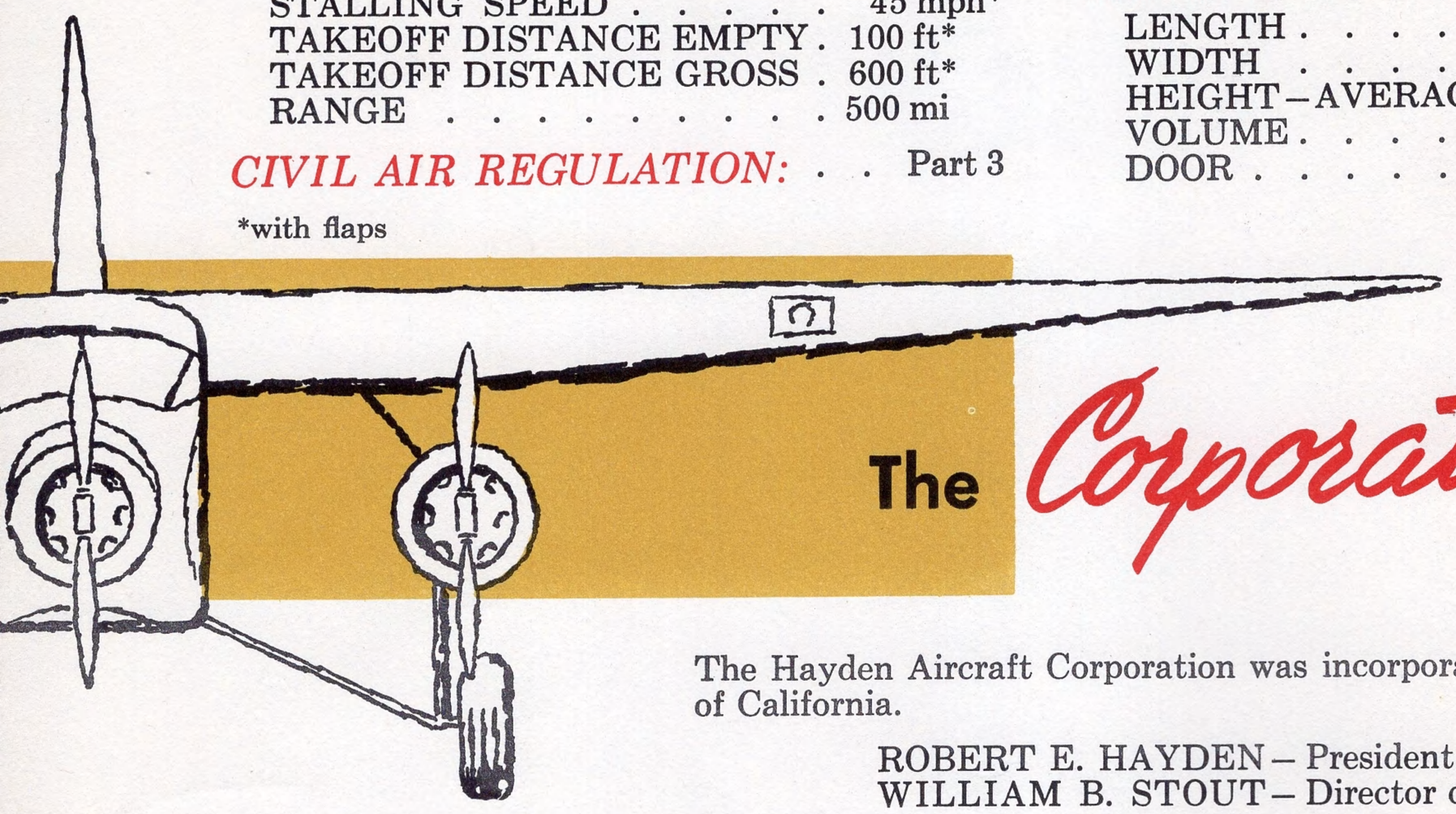
3 PRATT & WHITNEY R985 . 450 hp ea

DIMENSIONS:

SPAN	74 ft 6 in
LENGTH	50 ft 4 in
HEIGHT	13 ft 9 in
TREAD	21 ft

CABIN DIMENSIONS:

LENGTH	20 ft
WIDTH	6 ft
HEIGHT–AVERAGE	6 ft
VOLUME	720 cu ft
DOOR	60 x70 in



The *Corporation*

The Hayden Aircraft Corporation was incorporated January 15, 1955 in the State of California.

ROBERT E. HAYDEN – President & Chairman of Board
WILLIAM B. STOUT – Director of Engineering

Directors:

W. B. Thompson	Albert Moody	Frank Endow	E. H. Cooper
Raymond Moore	Donald H. Alder	Walter Unsell	

The Corporation is served by a three-man advisory board:

WILLIAM B. STOUT–Chairman
Notable inventor and builder of aircraft: former president of the Society of Automotive Engineers and the Institute of Aeronautical Engineers, members of the National Aeronautical Association and present Chairman of the National Air Museum Advisory Board, Smithsonian Institute.

COMMANDER GEORGE O. NOVILLE
President of the firm of G. O. Noville & Associates – Research and Design Engineers; former vice president of the Flying Tiger Lines. Made Atlantic crossing with Admiral Byrd 29 days after Lindbergh, Admiral Byrd's Executive Officer on both polar expeditions.

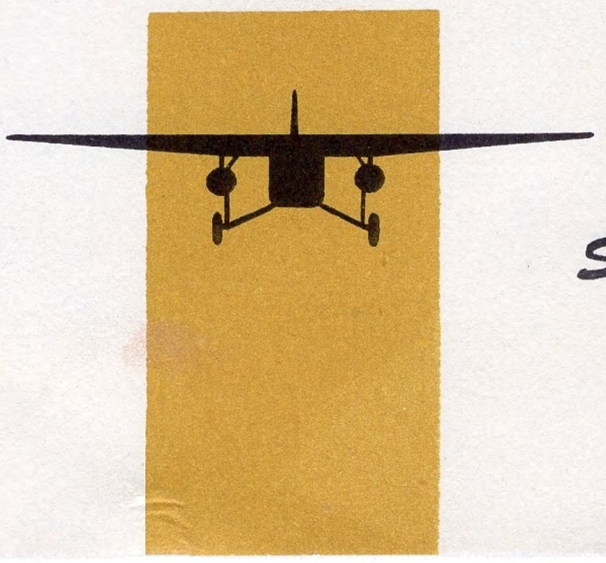
GENE MAY
Test pilot and lecturer: former chief test pilot for Douglas Aircraft Corporation, flight tested the experimental Skystreak and Skyrocket, 28 years of highly diversified flying experience.

* FOR ADDITIONAL INFORMATION CONCERNING THE CORPORATION, ITS CORPORATE STRUCTURE, AND ITS PRODUCT ADDRESS INQUIRIES TO:

HAYDEN AIRCRAFT CORPORATION

POST OFFICE BOX 413 10451 E. CENTER STREET

BELLFLOWER, CALIF.



Stout Bushmaster