

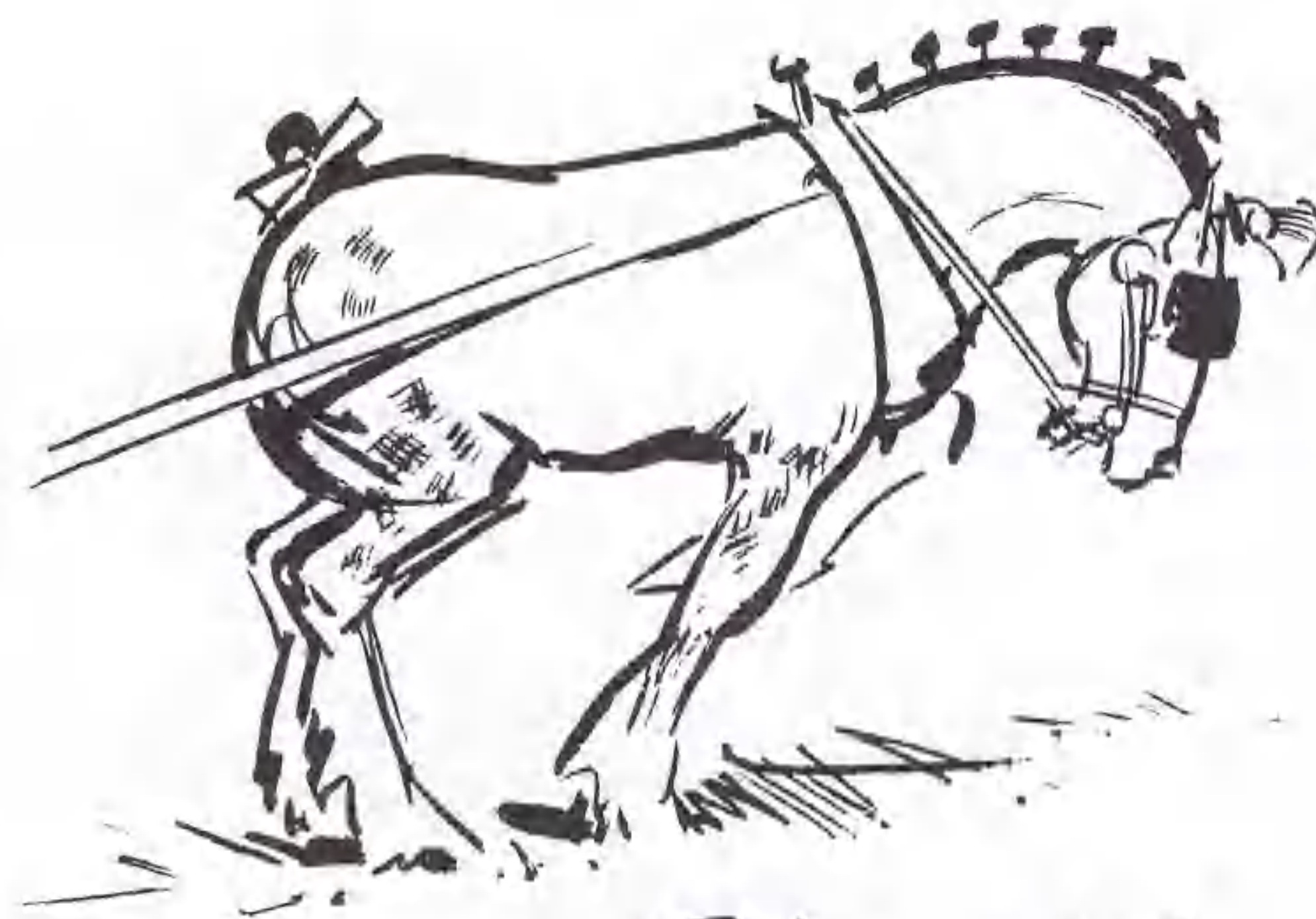


ASSAULT TROOPS DISEMBARKING "ON THE DOUBLE"

The

4-21

(VERTOL-43)



Work Horse

IN WORLD WIDE SERVICE

WITH THE US ARMY AND AIR FORCE

THE CANADIAN AND FRENCH GOVERNMENTS

VERTOL AIRCRAFT CORPORATION



TAKING CARGO ABOARD WITH ROTORS TURNING

DESCRIPTION

These H-21B & C models are Air Force and Army 22 place, single engine, tandem rotored, assault-transport helicopters. They are powered by the Wright R-1820-103 engine with a take-off rating of 1425 horsepower.

The fuselage is of all-metal stressed skin, semi-monocoque construction. The cockpit incorporates side-by-side pilot seating (pilot on right side) and complete dual hydraulic controls. In addition, the H-21B version has an automatic pilot. Cockpit design emphasizes optimum instrument arrangement for blind flying combined with maximum outside visibility.

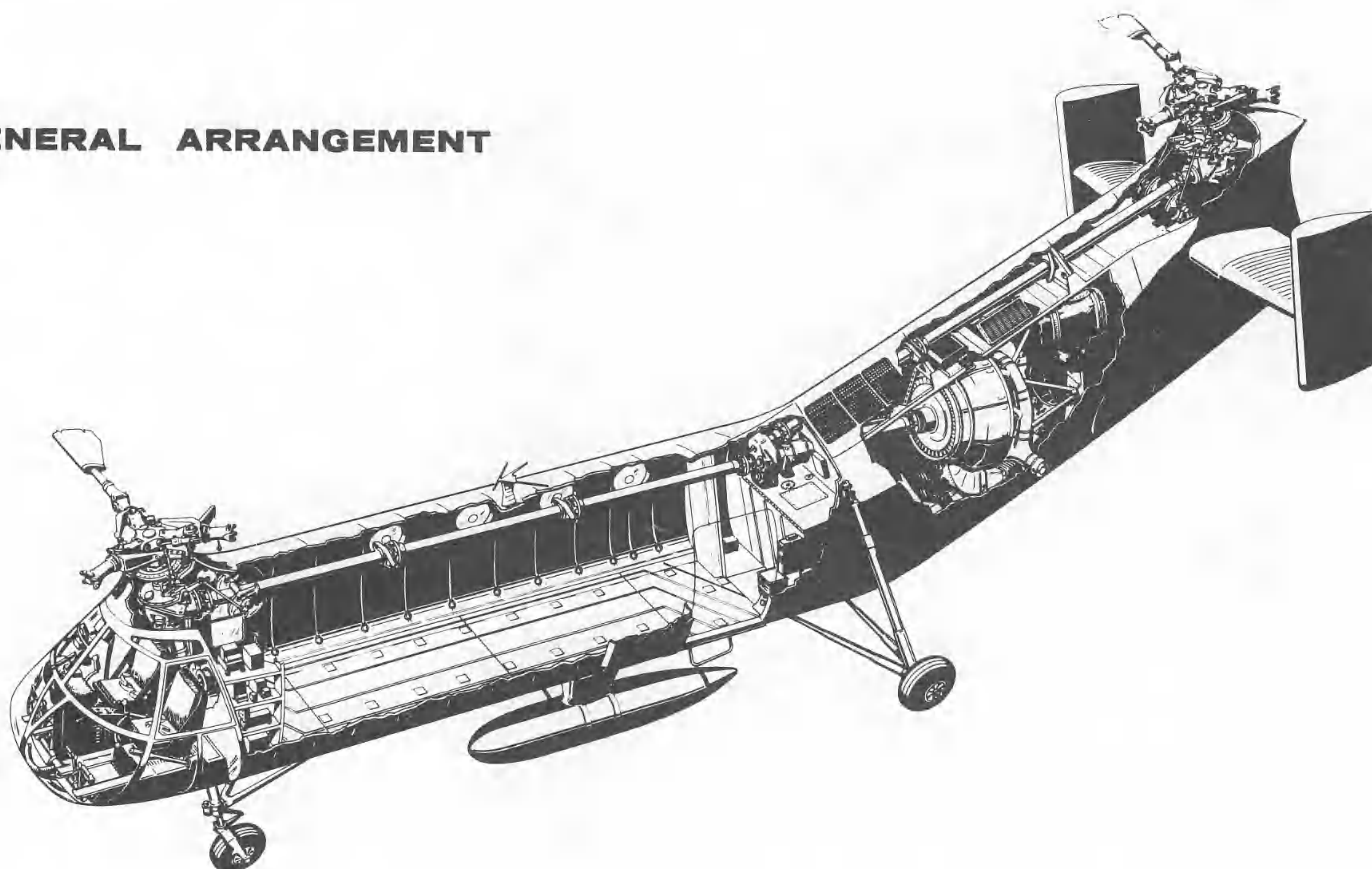
A large, rectangular main entrance door is located on the left side at the rear of the cabin. On the right side at the forward end of the cabin is a second, slightly smaller, entrance door above which provisions have been made for rapid installation of a 400-pound capacity, swinging boom type rescue/loading hoist. Both cabin doors slide open and shut along the sides of the fuselage, and each door contains a plexiglas knockout panel for emergency egress. Two additional escape hatches are located above the cabin in the crown of the fuselage.

The passenger / cargo compartment is 68 inches wide, 66 inches high and 240 inches long. It contains a clear, unobstructed floor area of more than 100 square feet (615 cu. ft.) and nine windows, five on the left and four on the right. Tie-down fittings for securing cargo, 20 troop seats, or 12 litters are built into the floor and lower longerons.

The landing gear is a wide tread, tricycle wheel type designed to withstand rough landings on uneven ground.

Other features of the H-21B & C model helicopters include; a 200,000 BTU cabin heater; cockpit and cabin insulation; pilot-controllable searchlight, as well as a fixed landing light; auxiliary, external, jettisonable fuel tanks; and an external cargo sling. In addition, complete radio, communication, and navigation equipment is provided.

H-21 GENERAL ARRANGEMENT



PERFORMANCE DATA

ENGINE—One Wright R-1820-103 with take-off rating of 1425 hp.
HIGH SPEED AT SEA LEVEL (Normal Rated Power) —130 to 140 mph.
SERVICE CEILING (At Normal Gross Weight)—About 10,000 feet.
CENTER OF GRAVITY RANGE—41.5 inches.
RANGE (300 gallons of fuel)—Over 450 miles.
FUEL CAPACITY—300 gallons.

WEIGHTS AND SPECIFICATIONS

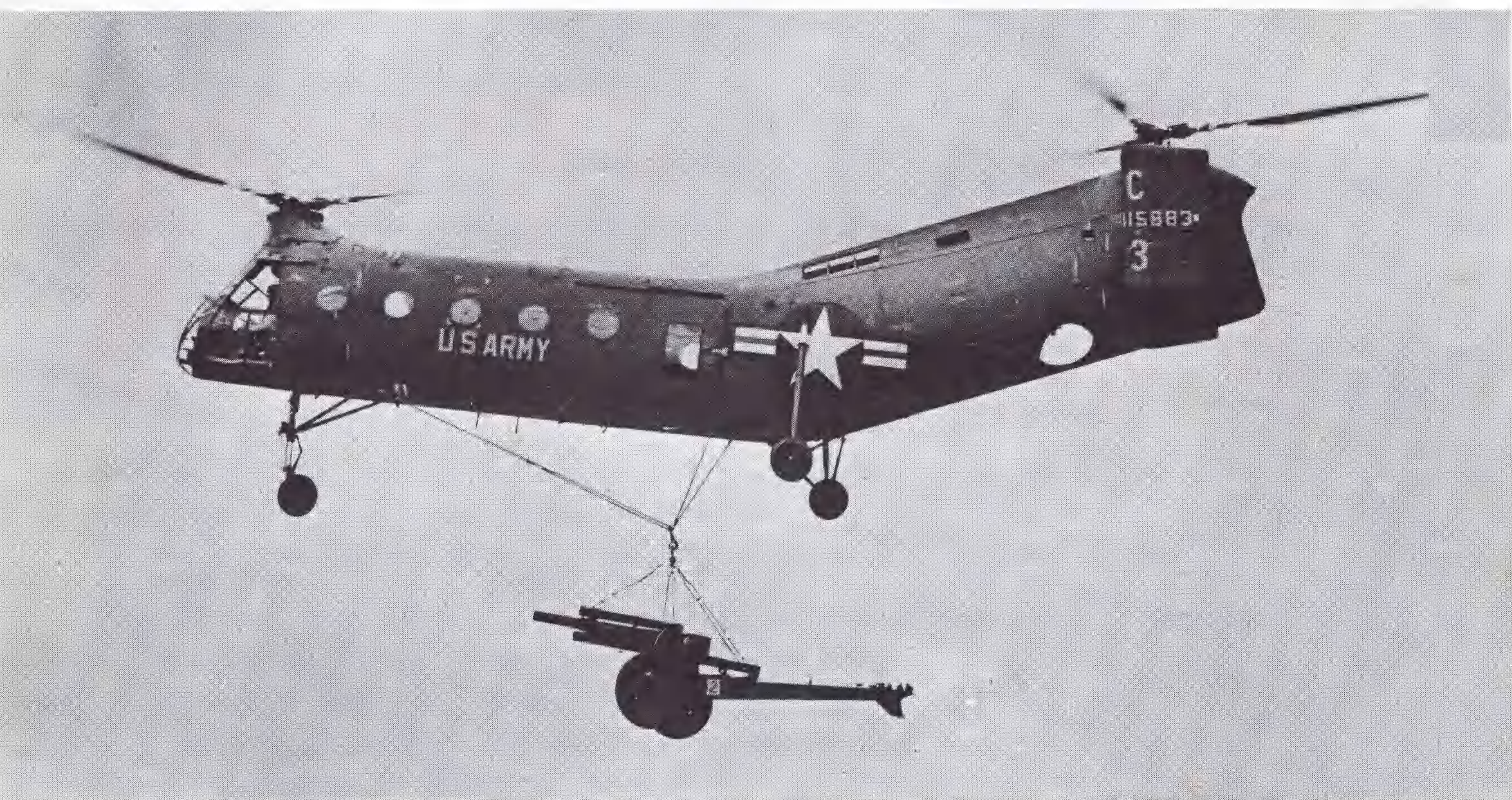
WEIGHT EMPTY.....	Approximately 8,800 pounds
NORMAL GROSS.....	Approximately 13,500 pounds
NORMAL USEFUL LOAD.....	Approximately 4,700 pounds
OVERLOAD GROSS.....	Over 15,000 pounds
OVERLOAD USEFUL LOAD.....	Over 6,000 pounds
SEATING CAPACITY.....	Pilot and co-pilot plus 20 folding troop seats or 12 litters.
POWER LOADING.....	9.3 pounds/hp.
MAIN ROTORS (two).....	Three blades per rotor—articulated
LANDING GEAR.....	Tricycle—fixed

DIMENSIONS

FUSELAGE LENGTH.....	52'—6"
FUSELAGE HEIGHT.....	15'—5"
ROTOR DIAMETER.....	44'—0"
LANDING GEAR TREAD.....	13'—4"
GROUND CLEARANCE.....	20.7"



TEXAS TOWER— THE AIR FORCE USES H-21 HELICOPTERS FOR PRIME SUPPORT OF THIS EARLY WARNING RADAR OUTPOST IN THE ATLANTIC OCEAN



CARGO SLING LIFT OF 4000 POUND HOWITZER

VERTOL *Aircraft Corporation*

MORTON, PENNSYLVANIA