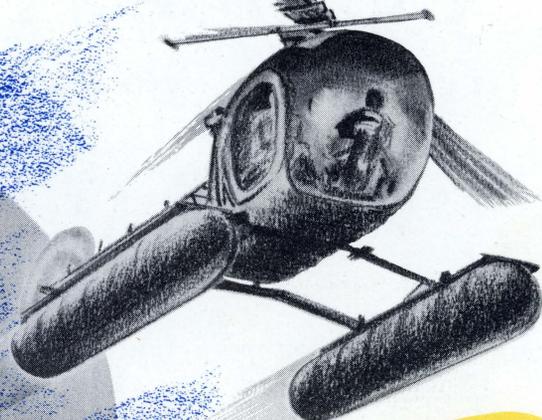


THE WORLD'S LEADING COMMERCIAL HELICOPTER



World Wide Service

47D-1

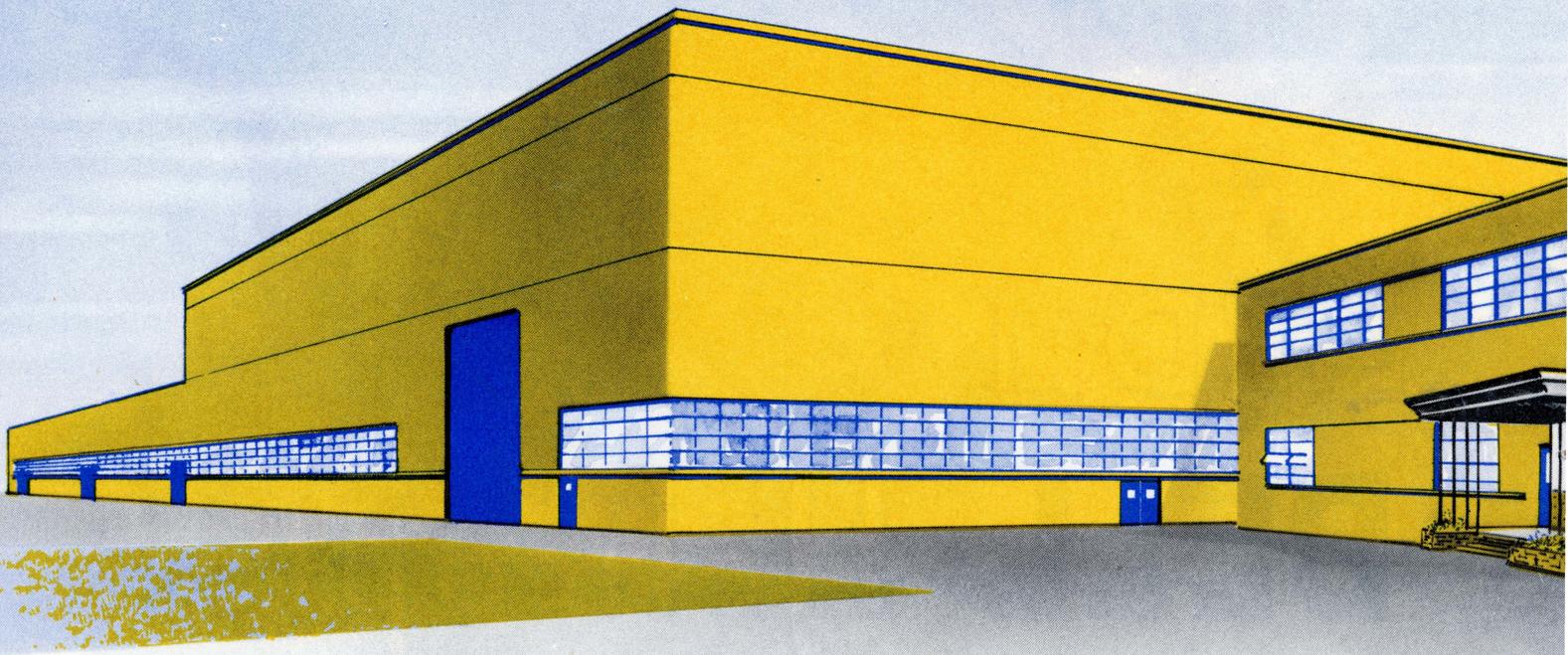
BELL Helicopter

BELL AIRCRAFT CORPORATION, P.O. BOX 482 FORT WORTH, TEXAS.

BELL *Aircraft* CORPORATION **HELICOPTER DIVISION**

Proudly holding the world's first commercial helicopter license, Bell Aircraft Corporation has maintained this momentum in design and development and geared production facilities to meet the rising demand in civilian and military markets.

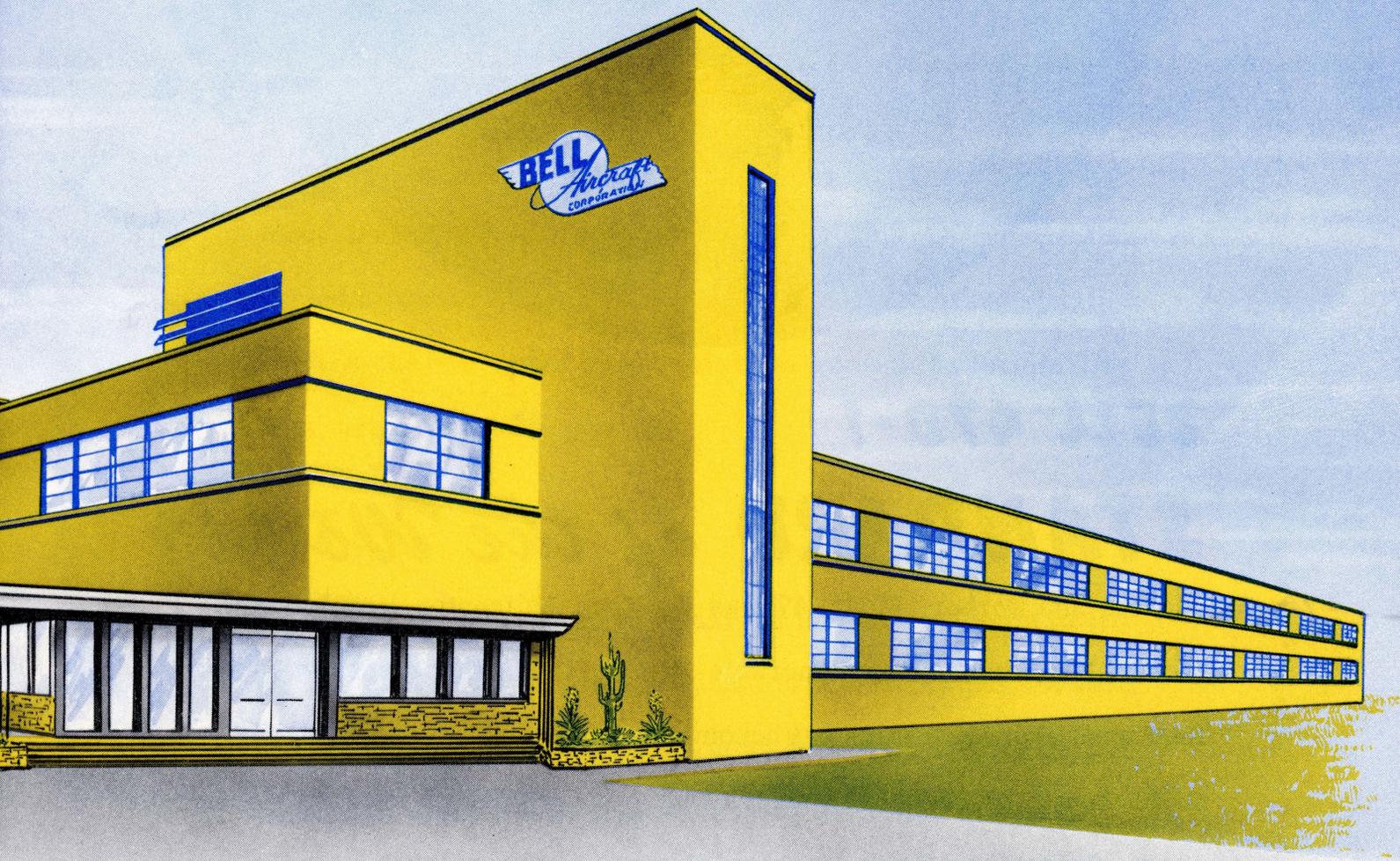
The year 1952 marks another milestone in helicopter maturity. In order to accommodate domestic and foreign purchasers who appreciate the essence of Bell leadership in rotary wing aircraft, an independent division including all phases of helicopter engineering, flight research, fabrication and assembly has been erected in Fort Worth, Texas.....



THE BELL AIRCRAFT CORPORATION, FORT WORTH, TEXAS

Here a primary aim is large-scale production of Model 47D-1, the performance-proved helicopter, whose versatility has achieved distinction throughout the United States and on the five continents of the world.

Universally used in rescue, search, agricultural, photographic, delivery, transportation and reconnaissance work, it has won the plaudits of governments, armies, corporations and private business men, who utilize the latest, more efficient methods of overcoming obstacles to true progress.





BELL 47D-1

STANDARD *of the World*

Pioneer and worker, Model 47 was the first helicopter licensed commercially. Since that memorable day in 1946, the diversity of its functional characteristics has become apparent through one-half million flight hours of superior performance---a reputation established in North, Central and South America, Europe, Africa and Asia.

The **WORLDS FIRST**



BELL

Means Helicopter Dependability

Under hazardous weather conditions ranging from 55° below zero in Alaska to 120° above zero in the Belgian Congo, the performance of 47D-1 helicopters reflects credit upon skilled craftsmen who strive for safety and dependability.

ECONOMY

Practical economics are achieved through continuous development, thereby reducing maintenance time, overhaul inspection periods, parts replacement costs. An economic transportation vehicle, the helicopter transcends time-consuming terminal delays, urban traffic congestion.

UTILITY

Its unique ability to hover stationary in mid-air, to fly vertically as well as horizontally, crawl at snail's pace backward, forward and sideward, take-off and land in an area only slightly larger than itself make it a helicopter of truly unlimited utility.

Commercial Helicopter



BELL HELICOPTERS



Individual operators in the United States, using Bell's 47D series helicopters, are engaged profitably in: oil, geological, geophysical and wild life survey; agricultural and sanitation work; air mail and parcel delivery; news reporting and photography; publicity; advertising; police and harbor-security patrol; power lines observation; rescue and search missions; short haul and feeder transportation; forest observation, re-seeding and fire control.



Penetrating new trails in the Alaskan hinterland, helicopters are being used for aerial mapping---gathering pertinent information for today's pioneers.



While in the remote sections of sparsely-settled Canada, whose vast potential spells world leadership tomorrow, helicopters form the most logical link between field operations and coastal management.



For the past five years Bell helicopters have effectively dusted the Brazilian coffee crop, one of the nation's major exports. These have been serviced by Bell's dealer, Combate a Prajas Agricolas Aglicop Ltd.



TAYR, dealers for Bell in Argentina, are one of the largest helicopter companies in the world. Since 1947 their operations against the annual locust plague have been 98 % successful. A helicopter unit also is included in the Argentina Navy.



Peace-time pursuits, however, must take a back seat in the Philippines, where Bell helicopters form an integral part of the Air Force.

ARE USED WORLD WIDE



Also in England, British European Airways uses them to handle the huge volume of short-haul traffic, which has been the almost forgotten residue in air transportation.

Aersilta Company is the Bell dealer in Italy, where rotary wing craft has been used effectively in malaria control. It was Aersilta's Bell helicopters which recently took first and second honors in the international competition.

Air-minded France has assigned 47D-1 helicopters to its Air Force, while Bell's Paris representative, Fenwick Company, serves many commercial operators in progressive farming, commerce and industry.

Bell's Swedish dealer is AB Hans Osterman Company, whose helicopters won acclaim after a two-day spraying operation routed the caterpillars which threatened to skeletonize the lumber potential of Visingo Island.

Air mail goes all the way by air in Belgium, where world-famous Sabena Airlines operates Bell helicopters between Brussels and outlying sections of the country.

On the Island of Formosa the Chinese Nationalist Government has been operating Bell helicopters since 1949.

Across the Mediterranean in Iraq, Bell helicopters protect the valuable date crop from pestiferous destruction.



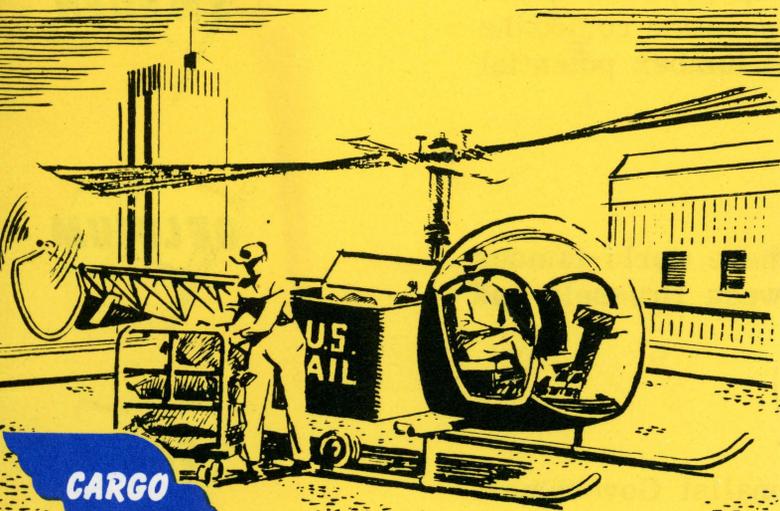
PERFORMANCE PROVED ACCESSORIES *make the*



DUST

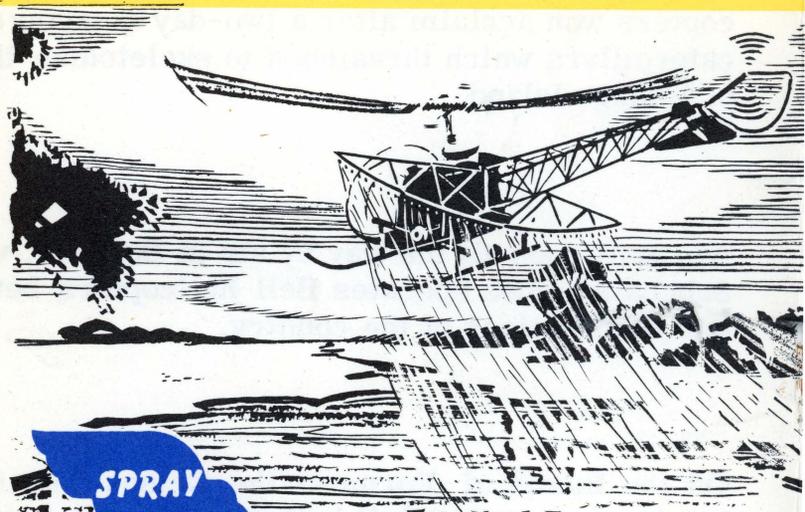
Man through the centuries has sought means of saving his crops from insects, disease and fungi. Today from many far-flung areas come substantiated reports heralding the work of the Model 47D-1 in successful operations against ruinous parasites. Thorough penetration is assured by its powerful main rotor downwash, which forces the chemical deep into the foliage. Operations such as these represent a saving in millions, in some instances the sustenance of an entire nation. Universally they typify a new era in agricultural progress.

OVER 1/2 MILLION



CARGO

Cargo carriers, providing an additional 25 cubic feet of space can be installed on each side of the helicopter, thereby increasing utility and payload.



SPRAY

Spray equipment includes a hopper on each side of the engine, and nozzles on outriggers which eject the chemicals. Swath width, volume and penetration are controlled by speed and altitude of the helicopter.

BELL Helicopter the ULTIMATE in UTILITY

Celebrated also is the role of the Bell helicopter in rescue and disaster missions. Capable of traversing isolated sectors inaccessible to other types of transportation, the 47D-1 is proving indispensable wherever emergencies make speedy evacuation essential. To the ill, the injured, the lost and the flood-bound, the helicopter means safety, escape----the link with life and health when all other means are impractical.

RESCUE



Logged Flight Hours



Fogging is associated primarily with the Bell helicopter inasmuch as it was the first to effectively dispense aerosol insecticide fogs over fly and mosquito-infested resort areas---making habitable some of the scenic wonderland of America.



Float-equipped, the 47D-1 lands on water, deep snow, mud or marsh as well as hard terrain.

Performance DATA

The performance data listed below are for operation at gross weights of 1900 pounds, 2100 pounds, and 2350 pounds in still air (0 miles per hour) under NACA standard atmospheric conditions. With normal wind velocity hovering performance is increased.

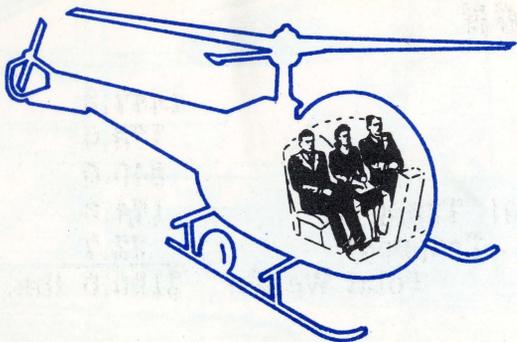
	1900 lbs	2100 lbs	2350 lbs
Maximum Cruising Speed at Sea Level	99 mph	97 mph	96 mph
Operating Speed, Sea Level 75 % Power	81 mph	79 mph	77 mph
Maximum Rate of Climb at Sea Level	1110 ft/min	970 ft/min	780 ft/min
Time to Climb to 5,000 ft	5 min	6 min	8 min
Absolute Ceiling	16,000 ft	14,300 ft	12,500 ft
Service Ceiling	14,500 ft	13,000 ft	10,900 ft
Hovering Ceiling in Ground Effect*	9,400 ft	6,700 ft	3,600 ft
Range, Sea Level, 75 % Power (Absolute)	170 miles	166 miles	162 miles
Endurance, Sea Level, 75 % Power	2.1 hrs	2.1 hrs	2.1 hrs
Maximum Endurance	3.0 hrs	2.9 hrs	2.8 hrs

* "In Ground Effect" is with skids 4 feet above ground. Zero Ground Roll required for Take-Off.



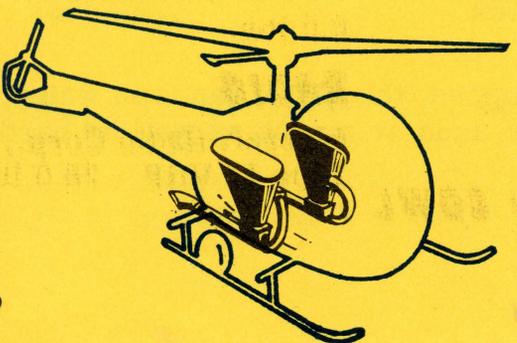
TWO OCCUPANTS

Weight Empty (approximate)	1400.0
Pilot	170.0
Passenger	170.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	1937.5 lbs.



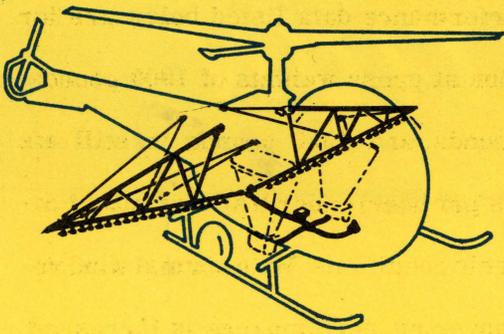
THREE OCCUPANTS

Weight Empty	1400.0
Pilot	170.0
Two passengers	340.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2107.5 lbs.



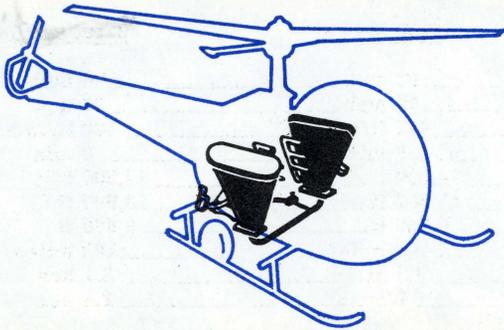
CROP DUSTER

Weight Empty	1476.0
Pilot	170.0
Dust	500.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2343.5 lbs.



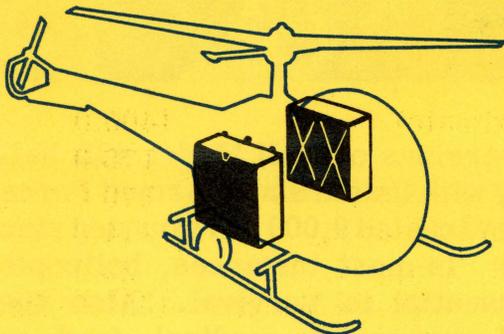
SPRAYING

Weight Empty	1467.0
Pilot	170.0
Spray	500.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2334.5 lbs.



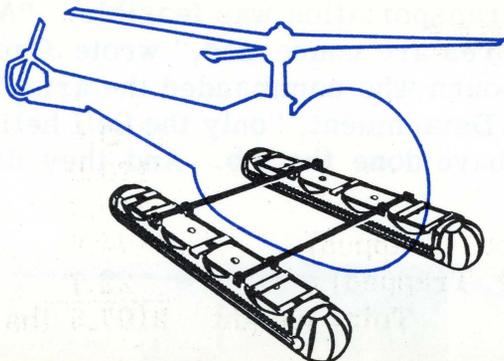
AEROSOL FOG

Weight Empty	1444.0
Pilot	170.0
Liquid	530.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2341.5 lbs.



CARGO CARRIER

Weight Empty	1447.0
Pilot	170.0
Cargo	615.0
Fuel (15 gals. + .14 gal. Trapped)	90.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2345.5 lbs.



FLOAT OPERATION

Weight Empty	1447.5
Pilot	170.0
Two passengers	340.0
Fuel (29 gals. + .14 gal. Trapped)	174.8
Oil (2 gals. + 1.02 gal. Trapped)	22.7
Total Weight	2155.0 lbs.

**OTHER
ACCESSORIES
AVAILABLE**

NIGHT FLYING

4.0 lbs.

ROTOR BRAKE

2.5 lbs.

WINTERIZATION COWL

37.0 lbs.

DUAL CONTROLS

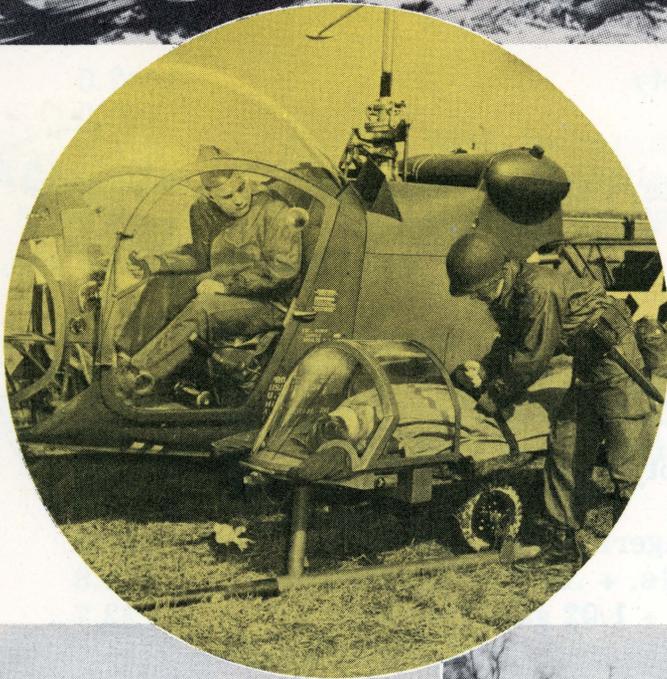
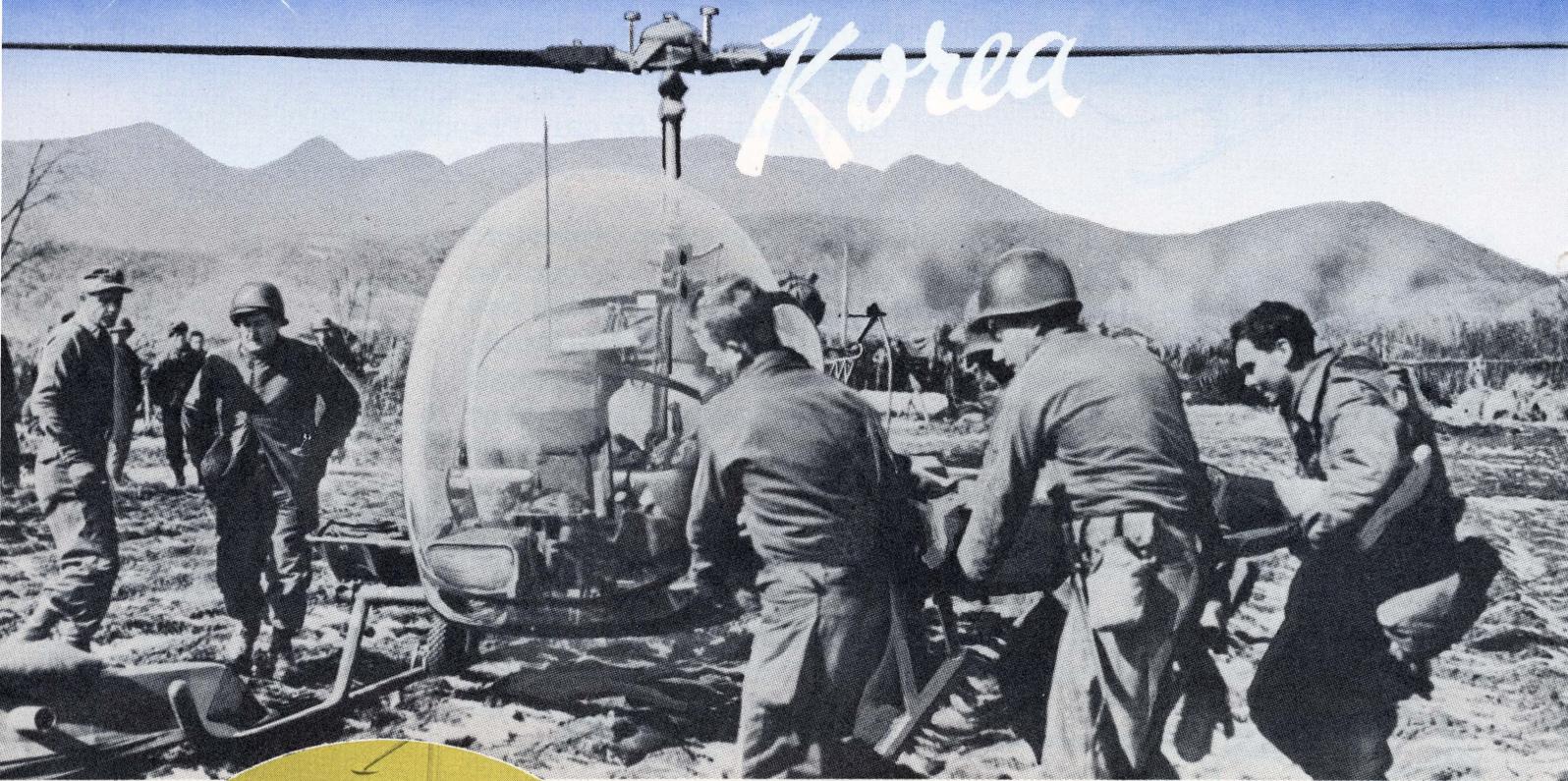
8.0 lbs.

RADIO

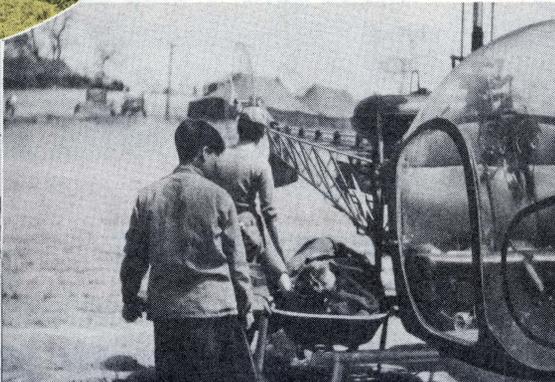
Aircraft Radio Corp.,
Type 12 VHF - 38.0 lbs.

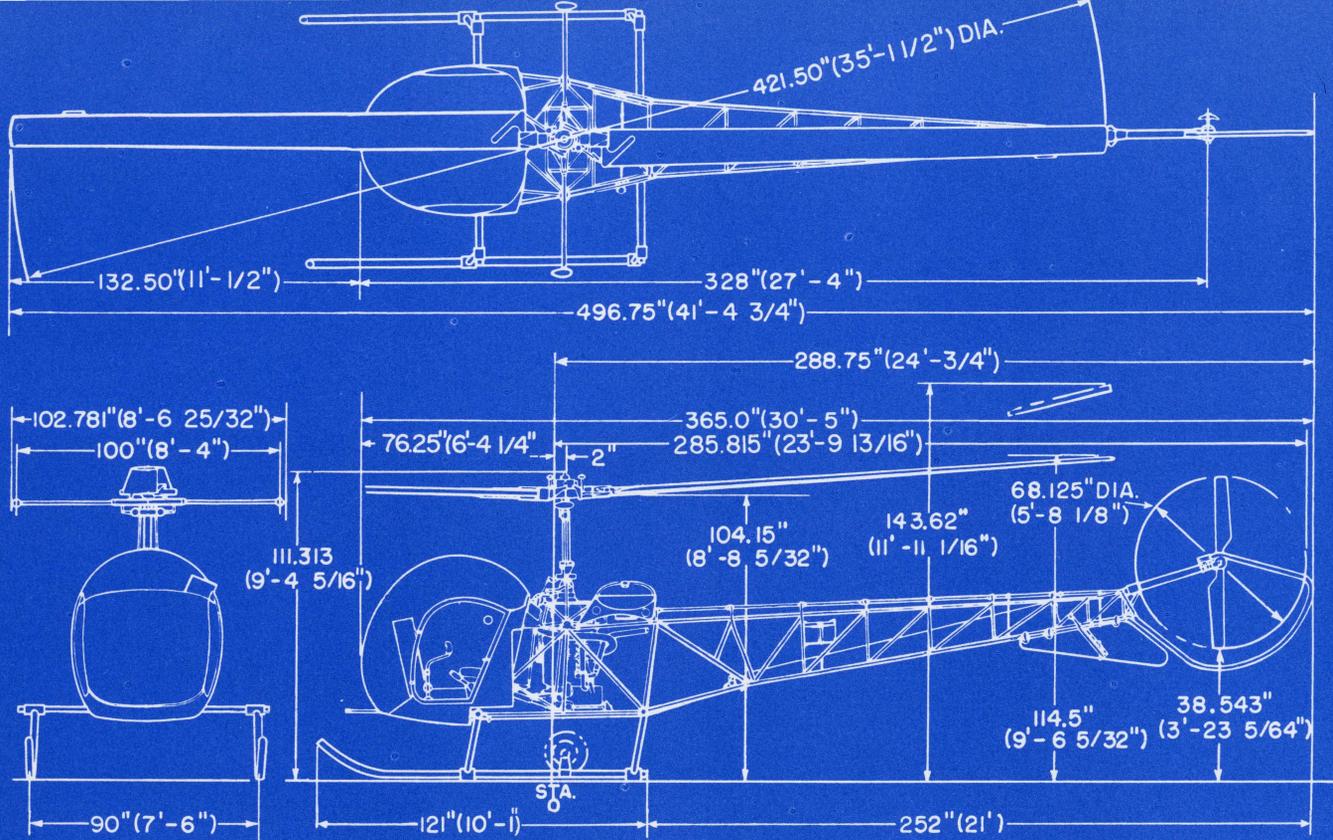


EVACUATION *Korea*



Military versions of Bell Model 47D helicopters, on duty with United States Armed Forces in Korea, have evacuated 9,000 UN wounded since December 1950. In most instances, helicopter rescue was essential to survival. Also they have delivered emergency medical, food and ammunition supplies to front-line units when no other form of transportation was feasible. "As far as we in Korea are concerned," wrote Captain Albert Sebourn who commanded the army's 2nd Helicopter Detachment, "only the Bell helicopters could have done the job. And they did it."





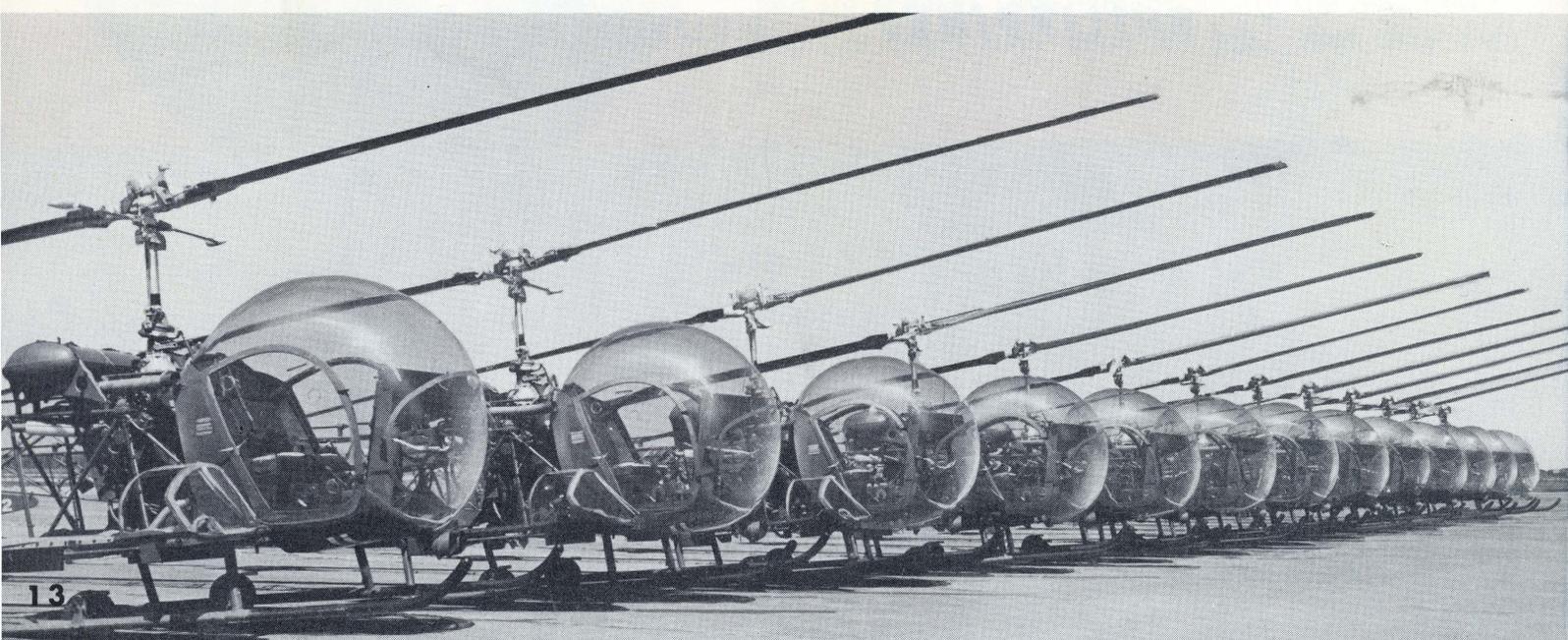
MASS PRODUCTION

Unprecedented demands for Bell Aircraft's Model 47 series helicopters by commercial and military organizations made it apparent that this rapidly expanding industry required separation from the company's other productions and experimental projects.

The new facilities recently completed at Hurst, Texas, will insure the completion

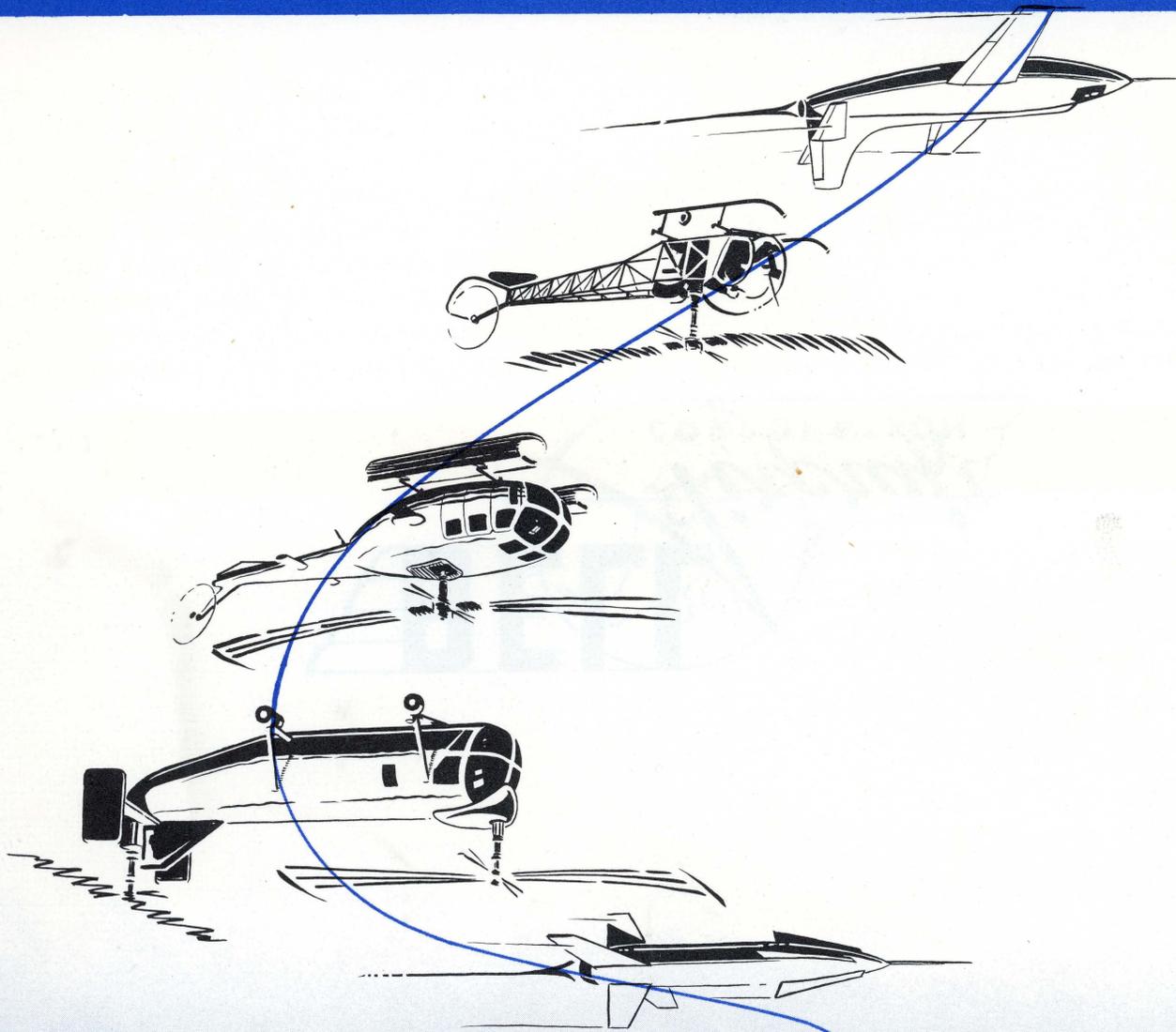
of greater quantities of helicopters and component parts to meet the ever-increasing demand for the machine which has proved itself so entirely capable of performing so many diversified tasks.

Bell Aircraft Corporation's Helicopter Division, now in its own quarters, intends to maintain its leadership in the helicopter industry by intensifying its production and development programs.



HELICOPTER DIVISION
P.O. BOX 482 FORT WORTH, TEXAS

BELL *Helicopters* CORPORATION



ACHIEVEMENT



