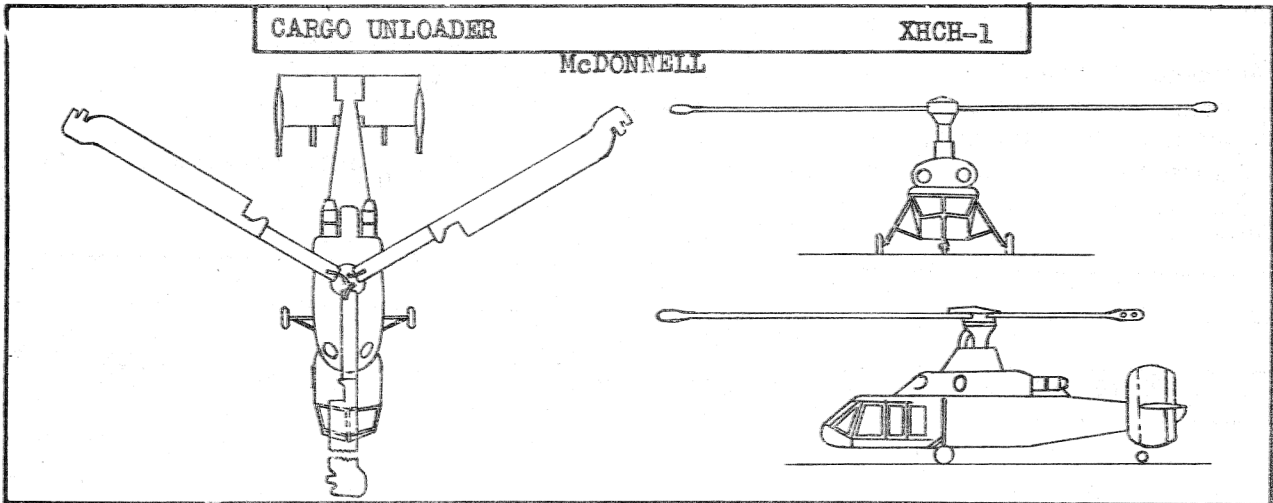


CHARACTERISTICS SUMMARY



CARGO UNLOADER

XHCH-1

McDONNELL

DISC AREA 3,320 sq. ft.
ROTOR DIA. 65' - 0"

LENGTH 36' - 11"
HEIGHT 16' - 8"

AVAILABILITY			PROCUREMENT			
NUMBER AVAILABLE			NUMBER DELIVERED			
			IN FISCAL YEARS			
ACTIVE	RESERVE	TOTAL				

STATUS

Mock-up date -- December 1952
First Flight-- November 1954
Service use estimated -- July 1956

ENGINES	
2	Allison 501-B1
	Rhp / Rpm / Alt.
T. O.	2700/14300/S.S.L.
MIL.	2700/14300/S.S.L.
NORM.	2315/14300/S.S.L.

FEATURES
Crew - 3
Rotor is driven by pressure jets located in the blade tips. Compressed air for these jets is provided by 2 compressors.
Rotor blade folding
Retractable and jettisonable cargo sling
766 gal. fuel, max. cap.

ARMAMENT
None

NAVAER 1519 E (NEW 4-51)

1 NOVEMBER 1951

CHARACTERISTICS SUMMARY

BASIC MISSION

XHCH-1

Warm-up, take-off, landing, hovering, and miscellaneous allowances -- 15 minutes at power required for hovering at sea level out of ground effect at take-off weight.
 Cruise out at 60 knots to objective area carrying 8 ft. cube externally as cargo.
 Cruise back to base at 60 knots without cargo.
 Reserve -- 10% of initial fuel load.

PERFORMANCE

COMBAT RADIUS	COMBAT RANGE	COMBAT SPEED
16 naut. mi. 60 knots avg. Sea Level altitude	30 naut. mi. 60 knots avg. 0.5 hours Sea Level altitude	75 knots at Sea Level, Max. Power MAXIMUM SPEED 75 knots at Sea Level, Max. Power
CLIMB	CEILING	TAKE OFF
4,170 ft./min. Sea Level, T. O. wt. Maximum Power	11,700 ft. 100 ft./min., T. O. wt. Maximum Power	Vertical
5,770 ft./min. (vertical) Sea Level, T. O. wt. Maximum Power	10,000 ft. Absolute Hover Ceil., T. O. Wt. Maximum Power	
LOAD	WEIGHTS	STALLING SPEED
Fuel 742 gal. fixed 742 drop Cargo 15,000 lbs.	Empty 11,731 lbs. Combat -- Take-off 32,000 lbs.	knots Flaps down, T. O. wt. TIME TO CLIMB ft. in min. Combat Wt., Max. Power

NOTES

Performance is based on calculations.
 An 8-foot cube is carried externally as cargo.
 Range and radius are based on McDonnell estimated fuel consumption data increased by 5%. Combat range is based on fuel allowance for warm-up and take-off (15 minutes at S. L. hover power for take-off weight) and a 10% fuel reserve.

51 35807 NAVAER 1513 B (REV. 49)