STANDARD AIRCRAFT CHARACTERISTICS

XROE-1

HILLER

30 JULY 1960
POWER PLANT

NO. AND MODEL ......................... (1) YD-65-2
MANUFACTURER ........................ NASH
ROTOR GEAR RATIO ..................... 7.35:1
TALL ROTOR GEAR RATIO .............. 1.43:1

RATINGS

BHP = BPH = ALT
MILITARY 43 4000 SGL
NOMINAL 43 4000 SGL

ENGINE MODEL DIESEL NO. 58-101
OF 13 AUG 1959

MISSION AND DESCRIPTION

The model XH01-1 is a single place, light weight, foldable and portable helicopter, powered by a 4-cylinder, 2-cycle, air cooled reciprocating engine. It is designed specifically for use of the Marine Corps for liaison, pilot rescue, scope, evasion, observation, and small unit tactical missions.

The configuration includes a single two-bladed main rotor, a lesser automatic control rotor and an anti-torque tail rotor. The transmission incorporates a single spiral bevel gear set and an overrunning clutch. The fuel system is of the gravity feed type.

This helicopter can be folded or assembled in the field in less than five minutes. For aerial drops to dropped pilots or stranded troops the folded helicopter will fit into a streamlined container suitable for external carriage on fixed wing aircraft.

DEVELOPMENT

First Flight .............................. November 1956
Service Use .............................. September 1959

DIMENSIONS

MASS AREA 19.6 ft.2
BLADE AREA 8.0 ft.2
TALL ROTOR JIA. 3.0 ft.
MAX WEIGHT 7.4 ft.
MAX LENGTH 18.4 ft.
MAX. TREAD 6.9 ft.

ELECTRONICS

NONE

WEIGHTS

LOADING LBS.
EMPTY 307.5
BASIC 306.5
DEPLOYED 362
MAX. T.O. 362
MAX. LANDING 362

FUEL AND OIL

NO. TANKS GALLS LOCATION
1 2.4 Behind Pilot
GRADE 80/87

OIL

GRADE SAE NO.
(Mixed with flat 16:1 by vol) 30

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