CHARACTERISTICS SUMMARY

CARGO UNLOADER

McDONNELL

XHCH-1

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

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

AVAILABILITY

NUMBER AVAILABLE
ACTIVE  RESERVE  TOTAL

PROCUREMENT
NUMBER DELIVERED
IN FISCAL YEARS

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. speed

ARMAMENT

None

1 NOVEMBER 1951
## CHARACTERISTICS SUMMARY

### BASIC MISSION

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

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>COMBAT RANGE</th>
<th>COMBAT SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>16 naut. mi.</td>
<td>30 naut. mi.</td>
<td>75 knots at Sea Level, Max. Power</td>
</tr>
<tr>
<td>60 knots avg.</td>
<td>60 knots avg.</td>
<td>Maximum Speed</td>
</tr>
<tr>
<td>Sea Level altitude</td>
<td>0.5 hours</td>
<td>75 knots at Sea Level, Max. Power</td>
</tr>
<tr>
<td></td>
<td>Sea Level altitude</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLIMB</th>
<th>CEILING</th>
<th>TAKE OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>4,170 ft./min.</td>
<td>11,700 ft.</td>
<td>Vertical</td>
</tr>
<tr>
<td>Sea Level, T. O. wt. Maximum Power</td>
<td>100 ft./min., T. O. wt. Maximum Power</td>
<td></td>
</tr>
<tr>
<td>3,770 ft./min. (vertical)</td>
<td>10,000 ft.</td>
<td></td>
</tr>
<tr>
<td>Sea Level, T. O. wt. Maximum Power</td>
<td>Absolute Hover Ceiling, T. O. Wt. Maximum Power</td>
<td></td>
</tr>
</tbody>
</table>

### LOAD | WEIGHTS | STALLING SPEED | TIME TO CLIMB |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel 742 gal.</td>
<td>Empty 11,731 lbs.</td>
<td>Flaps down, T. O. wt.</td>
<td></td>
</tr>
<tr>
<td>fixed 742 drop</td>
<td>Combat</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cargo 15,000 lbs.</td>
<td>Take-off 32,000 lbs.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>ft. in min.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Combat Wt., Max. Power</td>
</tr>
</tbody>
</table>

### 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.

1 NOVEMBER 1951