Characteristics Summary

HELIICOPTER ............ XH-40

Disc Area ................. 1520 sq ft
Rotor Dia .................. 44.0 ft
Height ..................... 14.8 ft
Length (rotors operating) 53.0 ft
(rotors static) ............. 53.0 ft
(fuselage) ................ 40.3 ft

Availability

<table>
<thead>
<tr>
<th>Number available</th>
<th>Procurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

Status

1. Three (3) articles being procured for the Department of the Army.
2. Contract Date: Jun 55
3. Mock-Up: Nov 55
4. First Flight: Oct 56

Navy Equivalent: None

Mfr's Model: 204

Power Plant

(1) XT53-L-1
Lycoming

ENGINE RATINGS
SLS SHP - LB - RPM - MIN
T.O: 825 - 104 - 6800 - 5
MIL: 825 - 104 - 6900 - 30
Nor: 770 - 98 - 6900 - Cont

Note: Derated to 700 SHP at 6400 RPM from S.L. to 5200 ft.

Features

Gas Turbine Power Plant
Skid-Type Landing Gear
Dual Controls
In-Flight Blade Tracking
Internal Ferry Tanks (prov)

Max Fuel Capacity: 290 gal

General

Crew (normal) .......... 2
Pilot
Co-pilot or Attendant
Litters ................. 2
or
Crew ..................... 1
Passengers ............ 4
Cargo Floor Area, 39.8 sq ft
Cargo Space (volume) .... 140 cu ft

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XH-40
## Characteristics Summary Basic Mission

- **XH-40**

### Performance

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>FERRY RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>104 naut. mi</td>
<td>519 naut. mi</td>
<td>COMBAT 125 knots at 5000 ft alt., nor power</td>
</tr>
<tr>
<td>with 500 lb payload</td>
<td>with 290 gal fuel</td>
<td>MAX 133 knots at 2400 ft alt., nor power</td>
</tr>
<tr>
<td>at 96 knots avg.</td>
<td>at 5792 lb T.O. wt.</td>
<td>BASIC 125 knots at 5000 ft alt., nor power</td>
</tr>
<tr>
<td>in 2.2 hours.</td>
<td>in 5.4 hours</td>
<td></td>
</tr>
</tbody>
</table>

### Climb

- 2840 fpsm sea level, take-off weight normal power
- 2740 fpsm sea level, combat weight normal power

### Ceiling

- 21,600 ft 100 fpsm, take-off weight normal power
- 20,600 ft 500 fpsm, combat weight normal power

### Load

| Crew (2) | 200 lb |
| Litters Patients (2) | 500 lb |
| Fuel: | 125 gal |
| protected | 0 % |
| droppable | 0 % |
| external | 0 % |

### Weights

| Empty | 3598 lb |
| Combat | 5081 lb |
| Take-off | 4944 lb |

### Hovering Ceiling

- 17,300 ft combat wt., normal power

### Vertical Climb

- 2160 fpsm Sea Level, take-off wt., normal power

### Notes

1. Performance Basis:
   - (a) Estimated Data
2. Revision Basis: To reflect performance data at heavier weights.

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**XH-40**

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