CHARACTERISTICS SUMMARY

UTILITY HELICOPTER HUP-1

PIASECKI

DISC AREA 1,070 sq. ft. (projected)
ROTOR DIA. 35' 0"
LENGTH 31' 10"
HEIGHT 12' 6"

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUMBER AVAILABLE</td>
<td>NUMBER DELIVERED IN FISCAL YEARS</td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
</tr>
</tbody>
</table>

STATUS

First Flight— August 1950
Service Use to Start— November 1950

ENGINES

1 Continental R-975-34
T.O. 525/2,300/2,200†
NORM. 500/2,500/6,700†
ALT. 500/2,100/S.L.

FEATURES

Crew - 3
Passengers - 4
Litters - 2
Folding Rotor Blades
IFF Equipment
100 gal. fuel, maximum capacity

ARMAMENT

— None —
Hoist Capacity 400 lbs
Rescue Hatch 48" x 26"

30 APRIL 1956
### CHARACTERISTICS SUMMARY

**BASIC MISSION**

- **1,500 ft.**
- **COMBAT RADIUS**

### PERFORMANCE

<table>
<thead>
<tr>
<th>MAX. ENDURANCE</th>
<th>COMBAT RANGE</th>
<th>COMBAT RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.3 hours</td>
<td>195 naut. mi.</td>
<td>80 naut. mi.</td>
</tr>
<tr>
<td>56 knots avg.</td>
<td>75 knots avg.</td>
<td></td>
</tr>
<tr>
<td>1,500 ft. alt.</td>
<td>2.6 hours</td>
<td>70 knots avg. 1,500 alt</td>
</tr>
</tbody>
</table>

### CLIMB

<table>
<thead>
<tr>
<th>1,250 ft./min. (forward flight)</th>
<th>13,200 ft. (forward flight)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sea Level, T.O. wt.</strong></td>
<td><strong>100 ft./min., T.O. wt.</strong></td>
</tr>
<tr>
<td><strong>Normal Power</strong></td>
<td><strong>Normal Power</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>850 ft./min. (vertical)</th>
<th>4,300 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sea Level, T.O. Wt.</strong></td>
<td><strong>Absolute Hover ceiling</strong></td>
</tr>
<tr>
<td><strong>T.O. Power</strong></td>
<td><strong>T.O. Wt.</strong></td>
</tr>
<tr>
<td><strong>Normal Power</strong></td>
<td><strong>Normal Power</strong></td>
</tr>
</tbody>
</table>

### CEILING

**MASSIVE SPEED**

- 105 knots at 3,800 ft. Maximum Power
- **TAKE OFF**
- **Takes off**

### LOAD

- **Fuel** 81 gal.
- **fixed** 81 drop
- **Pay Load** 200 lbs.

### WEIGHTS

- **Empty** 4,214 lbs.
- **Combat** 1 lbs.
- **Take-off** 5,450 lbs.

### NOTES

Performance is based on flight test of **HUP-1** helicopter. Combat range and maximum endurance are quoted at optimum RPM. Fuel consumption for range and endurance is based on flight test fuel consumption data increased 5% and allowing fuel for warm-up and take-off and a 10% fuel reserve. All performance is out of ground effect.