# Characteristics Summary

**CARGO C-130 A**

- **Wing Area**: 1745.5 sq ft
- **Length**: 97.8 ft
- **Span**: 132.6 ft
- **Height**: 38.1 ft

## AVAILABILITY

<table>
<thead>
<tr>
<th></th>
<th>ACTIVE</th>
<th>RESERVE</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

## PROCUREMENT

<table>
<thead>
<tr>
<th></th>
<th>Number to be delivered in fiscal years</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tr>
</tbody>
</table>

## STATUS

1. **Date of contract**: 19 Sep 52
2. **First flight (YC-130)**: 23 Aug 54
3. **First (conditional) (C-130A)**: Sep 55
4. **First service**: Dec 55 (est)

**Navy Equivalent**: None

**Mfr's Model**: 082-44-01

## POWER PLANT

1. **Type**: T 56-A-1A
2. **Engine**: Allison
3. **Engine Ratings**
   - S.L.S. SHP: 3450
   - T.O.: 3460
   - Nor: 3094
4. **A.T.O**
   - Nr & Model: 15K3-1000
   - Thrust (lb/ea): 1000
5. **Duration (sec)**: 15

## FEATURES

- Integral ramp & cargo door
- Single-point refueling
- E-4 auto-pilot
- Thermal de-icing
- Aft facing passenger seats (provisions)
- Armor protection for pilot, co-pilot and nacelles
- Max fuel capacity: 7882 gal
  - Limited by structure to 5082 (w/o ext. tanks) and 5302 (w/o ext. tanks)

## ARMAMENT

- **Crew**: 4
- **Troops (max)**: 92
- **Paratroops (max)**: 64
- **Litters**: 70
- **Attendants**: 6
- **Litters**: 74
- **Cargo compartment**: 3708 cu ft
### Characteristics Summary Basic Mission

**C-130 A**

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**Performance**

<table>
<thead>
<tr>
<th>Combat Radius</th>
<th>Combat Range</th>
<th>Speed</th>
</tr>
</thead>
<tbody>
<tr>
<td>1000 naut. mi with 35,000 lb payload</td>
<td>1835 naut. mi with 35,000 lb payload at 286 knots avg. in 7.4 hours</td>
<td>COMBAT 304 knots at 40,400 ft alt., mill power</td>
</tr>
<tr>
<td>MAX 326 knots at 24,200 ft alt., mill power</td>
<td>BASIC 326 knots at 25,000 ft alt., mill power</td>
<td></td>
</tr>
</tbody>
</table>

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**Climb**

<table>
<thead>
<tr>
<th>Sea Level, Take-off Weight</th>
<th>2075 fpm</th>
<th>Normal Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sea Level, Combat Weight</td>
<td>4320 fpm</td>
<td>Military Power</td>
</tr>
</tbody>
</table>

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**Ceiling**

<table>
<thead>
<tr>
<th>30,000 ft 100 fpm, Take-off Weight</th>
<th>Normal Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>38,700 ft 500 fpm, Combat Weight</td>
<td>Military Power</td>
</tr>
</tbody>
</table>

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**Take-off**

<table>
<thead>
<tr>
<th>Ground Run</th>
<th>1950 ft</th>
<th>1540 ft assisted</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Assist</td>
<td>3000 ft</td>
<td>2450 ft assisted</td>
</tr>
</tbody>
</table>

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**Weights**

<table>
<thead>
<tr>
<th>Cargo: 35,000 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty... 50,164 lb</td>
</tr>
<tr>
<td>Combat... 73,500 lb</td>
</tr>
<tr>
<td>Take-off 122,245 lb limited by mission</td>
</tr>
</tbody>
</table>

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**Stalling Speed**

| 89.2 knots power-off, landing configuration, take-off weight |

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**Time to Climb**

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**Notes**

1. Performance Basis:
   - (a) Contractor's estimated data
2. Performance Reference:
3. Revision Basis:
   - (a) To reflect changes in performance, characteristics data, and security classification.