**Characteristics Summary**

**BOMBER (SUPersonic)**

**XB-70 Air Vehicle Nr 3**

### Valkyrie

- **Wing Area**: 6298 sq ft.
- **Length**: 188.8 ft.
- **Span**: 116.0 ft.
- **Height**: 30.7 ft.

### Availability

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

### Status

1. Design Initiated: Nov 55
2. Mock-up: Mar 59
3. First Flight: Jul 64 (est)

4. Prototype air vehicles are to be used to obtain test data in the B-70 flight spectrum.

Navy Equivalent: None

Mfr's Model: NA-273

### Power Plant

- **(6) YJ93-GE-3**
- General Electric
- S.L.S. LB - RPM - MIN
- Max: *28,000 - 6825 - Cont
- Mil: 19,900 - 6825 - Cont
- Nor: 17,700 - 6825 - Cont
- *With afterburner

### Features

- Crew: 4
- Canard
- Airframe constructed from steel and titanium
- Variable area inlet
- Convergent-divergent exhaust nozzle
- Folding wing tips
- ILS: AN/ARN-58
- IFF radar: AN/SPX-46
- UHF command: AN/ARC-50
- Interphone: AN/JRC-18
- TACAN: AN/ARN-65
- Max fuel capacity: 46,745 gal
- Grade: JF-6

### Guidance

- Bomb-Nav Sys: AN/ASQ-28
- Frequency Diversity Radar with high resolution attachment
- Stellar Inertial Platform
- Doppler Radar
- Main & Emergency Digital Computers
- Operator’s Console

### Special Stores

**BOMBS:**

1. Class A
2. Class B
3. Class C
4. Class D

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**PERFORMANCE**

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>OPER. RANGE</th>
<th>SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT APPLICABLE</td>
<td>4655 naut. mi with 10,000 lb payload in 3.52 hours</td>
<td>CRUISE at max speed 1721 knots at 65,000-71,900 ft alt, min A/B</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CLIMB</th>
<th>CEILING</th>
<th>TAKE-OFF</th>
</tr>
</thead>
<tbody>
<tr>
<td>10,000 fpm sea level, take-off weight maximum power</td>
<td>79,950 ft 100 fpm, 288,267 lb (3) maximum power</td>
<td>7940 ft no assist ft assisted</td>
</tr>
<tr>
<td>31,750 fpm sea level, 288,267 lb (3) maximum power</td>
<td>79,700 ft 500 fpm, 288,267 lb (3) maximum power</td>
<td>11,400 ft no assist ft assisted</td>
</tr>
</tbody>
</table>

**LOAD WEIGHS MIN. SAFE SPEED**

| 10,000 lb Store | Empty..... 205,264 lb | 164 knots T.O. wt. 109 knots Landing wt. |
| Fuel: 45,992 gal protected 0% | Combat... 288,267 lb (3) | with canard flaps down |
| droppable 0% | Take-off 542,929 lb limited by mission | |
| external 0% | | |

**NOTES**

1. Performance Basis: Estimated data
2. Revision Basis: Recordinated
3. 288,267 lb is the weight 1200 N. Mi. prior to mission completion.