### Characteristics Summary

**F-90 (Version II)**

**Wing area** ............... 350.0 sq ft  
**Length** ..................... 56.2 ft  
**Span** ......................... 40.0 ft  
**Height** ...................... 15.8 ft

<table>
<thead>
<tr>
<th>AVAILABILITY</th>
<th>PROCUREMENT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number available</td>
<td>Number to be delivered in fiscal years</td>
<td></td>
</tr>
<tr>
<td>ACTIVE</td>
<td>RESERVE</td>
<td>TOTAL</td>
</tr>
</tbody>
</table>

**STATUS**

1. Design study completed.  
2. First flight: 3 June 1949 (XF-90)

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**POWER PLANT**

<table>
<thead>
<tr>
<th>(2) XJ46-WE-2</th>
<th>Westinghouse</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINE RATINGS</td>
<td></td>
</tr>
<tr>
<td>S.L.Static</td>
<td>LB - RPM</td>
</tr>
<tr>
<td>Max:</td>
<td>6100 - 10,100</td>
</tr>
<tr>
<td>MIL:</td>
<td>4080 - 10,100</td>
</tr>
<tr>
<td>Nor:</td>
<td>3670 - 10,100</td>
</tr>
<tr>
<td>*With afterburners operating ATO</td>
<td></td>
</tr>
</tbody>
</table>

| No. & Model (4) | 12AS1000D4 | Mfr | Aerojet |
| Thrust (lb ea.) | 1000 | Duration (sec.) | 12 |

**FEATURES**

- Crew: 1  
- Pressurization  
- Cooling & Heating  
- AN/APG-30 Radar Gun Rang- 
- ing  
- A-1C(mod.) Gun-Bomb-Roc- 
- ket Sight  
- APX-8 Radar (IFF)  
- Ejection Seat  
- Dive Brakes  
- Automatic Slats  
- Adjustable Stabilizer  
- Aileron Boost  
- Two-Position Fowler Flaps  
- Max Fuel Capacity: 1665 gal.

**ARMAMENT**

- Turrets: None  
- Guns: (6) 20mm  
- Ammunition (tot.): 1602 rds  
- Max Bomb Load: 2x1000 lb  
- Max Bomb Size: 1000 lb  
- Rockets: 8x5” HVAR

---

25 JAN. 1950  
SECRET
**Characteristics Summary Basic Mission: F-90 (Version II)**

- **Combat Radius**: 476 naut. mi with 0 lb payload at 473 knots avg. in 2.46 hours.
- **Combat Range**: 1352 naut. mi with 0 lb payload at 473 knots avg. in 2.87 hours.
- **Combat Speed**: 552 knots at 35,000 ft alt., max power.

**Maximum Speed**
- 620 knots at zero ft alt., max power.

**Climb**
- 3500 fpm, sea level, take-off weight, normal power.
- 18,600 fpm, sea level, combat weight, maximum power.

**Ceiling**
- 32,600 ft, 100 fpm, take-off weight, normal power.
- 48,600 ft, 500 fpm, combat weight, maximum power.

**Take-off**
- Ground run: 3360 ft, no assist.
- Over 50 ft height: 4460 ft, no assist.

**Load Weights**
- Bombs: None
- Ammunition: 1602 rds/20mm
- Fuel: 1665 gal, 57% protected, 43% droppable, 43% external

**Stalling Speed**
- 129 knots, flaps down, take-off weight.

**Time to Climb**
- 3.5 min. S.L. to 35,000 ft, Combat Wt., Max. Power.

**Notes**
1. **Performance Basis**:
   - Estimated data
   - Fuel density: 6.0 lb/gal
   - In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   - Radius and Range are increased to 562 and 1517 nautical miles; take-off weight to 33,716 lb, when using JP-1 (6.7 lb/gal.)
2. **Revision Basis**: To reflect changes in “Status”, “Power Plant” and “Notes” blocks.