**Characteristics Summary**

**FIGHTER • • • • • • • • • • • • • • • XF-88A**

McDONNELL

- **Wing area**: 350.0 sq ft
- **Length**: 54.2 ft
- **Span**: 39.7 ft
- **Height**: 17.3 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

- **EXPERIMENTAL**

1. **First Flight**: 26 April 1949
2. **Currently in Phase I flight testing**

### POWER PLANT

- **(2) J34-WE-15**
- **Westinghouse**

<table>
<thead>
<tr>
<th>Engine Ratings</th>
<th>S.L. Static</th>
<th>LB</th>
<th>RPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max:</td>
<td>3150 - 12,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mil:</td>
<td>3150 - 12,500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nor:</td>
<td>2620 - 11,800</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**AFTERBURNING**

McDonnell Afterburners add approx. 40% thrust to max rating.

### FEATURES

- **Crew**: 1
- **Pressurization**
- **Cooling**
- **Ejection Seat**
- **Irreversible Hydraulic Surface Controls**
- **Artificial Feel System**
- **AN/MPG-5 Radar**
- **A-1B Gun-Bomb-Rocket Sight**
- **Dive Brakes**
- **Blind Landing Equipment**
- **Max Fuel Capacity**: 1434 gal

### ARMAMENT

- **Turrets**: None
- **Guns**: 6x20mm
- **Ammunition (tot.)**: 1320 rds
- **Max Bomb Load**: 2x1000 lb
- **Max Bomb Size**: 1000 lb
- **Rockets**: 8x5'' HVAR

---

30 Nov. 1949

CONFIDENTIAL

XF-88A
## Characteristics Summary Basic Mission

### PERFORMANCE

<table>
<thead>
<tr>
<th>COMBAT RADIUS</th>
<th>COMBAT RANGE</th>
<th>COMBAT SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>(d) 521 naut. mi</td>
<td>(d) 1403 naut. mi</td>
<td>559 knots at 35,000 ft alt. max power (with A.B.)</td>
</tr>
<tr>
<td>with 0 lb payload</td>
<td>with 0 lb payload</td>
<td></td>
</tr>
<tr>
<td>at 468 knots avg.</td>
<td>at 463 knots avg.</td>
<td></td>
</tr>
<tr>
<td>in 2.68 hours.</td>
<td>in 3.11 hours.</td>
<td></td>
</tr>
</tbody>
</table>

### CLIMB

- **Sea level, take-off weight normal power**: 2130 fps
- **Sea level, combat weight maximum power (with A.B.)**: 15,180 fps

### CEILING

- **100 fps, take-off weight normal power**: 30,000 ft
- **500 fps, combat weight maximum power (with A.B.)**: 48,000 ft

### TAKE-OFF

- **Ground run no assist (with A.B.)**: 2865 ft assisted
- **Over 50 ft height**: 3180 ft assisted

### LOAD WEIGHTS

- **Empty**: 12,970 lb
- **Combat**: 19,330 lb
- **Take-off**: 23,930 lb

### STALLING SPEED

- **125 knots flaps down, take-off weight**

### TIME TO CLIMB

- 3.35 minutes
- S.L. to 35,000 ft
- Combat Wt., Max Power (with A.B.)

### NOTES

1. **PERFORMANCE BASIS:**
   - (a) Estimated data based on preliminary flight tests of the XF-88.
   - (b) Fuel density: 6.0 lb/gal.
   - (c) In computing Radius and Range, specific fuel consumptions have been increased 5% to allow for variation of fuel flow in service aircraft.
   - (d) Radius and Range are increased to 545 and 1470 nautical miles when using JP-3 (6.5 lb/gal).
2. **REVISION BASIS:** To reflect changes in "Power Plant" and "Features" blocks.