## Weights (lbs)
- Maximum Takeoff Weight: 46,761 lbs
- Maximum Landing Weight: 39,741 lbs
- Design Empty Weight: 22,027 lbs
- Operating Empty Weight: 22,678 lbs
- Payload Weight: 10,000 lbs

## Center of Gravity (from nose)
- Empty Weight: 37.61 ft
- Max Takeoff Weight: 31.03 ft
- Most Forward cg: 30.13 ft
- Most Aft cg: 31.33 ft

## Powerplant
- Engine Manufacturer: Avco Lycoming
- Model: ALF 502
- Type: Turbofan
- Takeoff Uninstalled Thrust: 22,875 lbs

## Landing Gear
- Tire Size (Main): 25.5 x 6.85
- Tire Size (Nose): 17.8 x 5.6
- Max Diameter (Main): 4.3 in
- Max Diameter (Nose): 2.5 in
- Total Strut Stroke (Main): 16 in
- Total Strut Stroke (Nose): 6 in

## Wing Parameters
- Area: 1150 sq ft
- Span: 64 ft
- MAC: 18.04 ft
- Aspect Ratio: 3.56 (-)
- Taper Ratio: 0.8 (-)
- Quarter Chord Sweep: 5 deg
- Airfoil Section: NACA 65-214
- Thickness to Chord: 14%
- Incidence Angle: 1 deg
- Dihedral Angle: 0 deg

## Tail Parameters
### Horizontal:
- Total Area: 190 sq ft
- Span: 29 ft
- Taper Ratio: 0.8 (-)
- Quarter Chord Sweep: 0 deg
- Airfoil Section: NACA 0012
- Dihedral Angle: 0 deg

### Vertical:
- Total Area: 208 sq ft
- Span: 14 ft
- Taper Ratio: 0.8 (-)
- Quarter Chord Sweep: 0 deg
- Airfoil Section: NACA 0010