

Date: 6/23/25  
Manufacturer: Sonex LLC  
Model: Sonex Highwing  
Registration: N225SH  
Serial Number: SHX0001

**Standard Gear, UL350iS**

Max Cont. HP: 123  
Min Fuel (lbs.): 61.5  
FAA Std. Min Fuel = (Max. Cont. HP/12)x6

Datum= Tip of Spinner (arm measurements taken from this point)  
Wing Chord = 54"

**Empty Weight / CG:**

|                             | Weight:       | Arm:               | Moment:          |
|-----------------------------|---------------|--------------------|------------------|
| R.H. Main Gear              | <b>380</b>    | 56.875             | 21612.5          |
| L.H. Main Gear              | <b>373</b>    | 56.875             | 21214.375        |
| Tail Wheel                  | <b>63</b>     | 235                | 14805            |
| Total Empty Aircraft:       | <b>816</b>    | <b>70.62729779</b> | <b>57631.875</b> |
| Distance from Datum to L.E. | <b>56.125</b> |                    |                  |
| CG=(Arm-56.125)/54          |               | CG= 0.26856107     | 26.86%           |

**Utility Category:**

Max Forward C.G. = 20%  
Max Aft C.G. = 32%  
Max Gross Weight = 1500 lbs.

**Aerobatic Category:**

Max Forward C.G. = 23%  
Max Aft C.G. = 29%  
Max Gross Weight = 1230 lbs.

**Most Forward Weight / CG Condition (FAA Standard):**

| Item:              | Weight:     | Arm:               | Moment:          |
|--------------------|-------------|--------------------|------------------|
| Empty Aircraft     | 816         | 70.62729779        | 57631.875        |
| Fuel               | 120         | 44.4               | 5328             |
| Baggage            | 0           | 108                | 0                |
| Pilot              | 170         | 76.4               | 12988            |
| Passenger          | 0           | 76.4               | 0                |
|                    | <b>1106</b> | <b>68.66896474</b> | <b>75947.875</b> |
| CG=(Arm-56.125)/54 |             | CG= 0.23229564     | 23.23%           |

**Most Aft Weight / CG Condition (FAA Standard):**

| Item:              | Weight:       | Arm:               | Moment:          |
|--------------------|---------------|--------------------|------------------|
| Empty Aircraft     | 816           | 70.62729779        | 57631.875        |
| Fuel               | 61.5          | 44.4               | 2730.6           |
| Baggage            | 87            | 108                | 9396             |
| Pilot              | 170           | 76.4               | 12988            |
| Passenger          | 170           | 76.4               | 12988            |
|                    | <b>1304.5</b> | <b>73.38786892</b> | <b>95734.475</b> |
| CG=(Arm-56.125)/54 |               | CG= 0.31968276     | 31.97%           |

**Flight Test Weight / CG Condition:**

| Item:              | Weight:     | Arm:               | Moment:          |
|--------------------|-------------|--------------------|------------------|
| Empty Aircraft     | 816         | 70.62729779        | 57631.875        |
| Fuel               | 66          | 44.4               | 2930.4           |
| Baggage            | 0           | 108                | 0                |
| Pilot              | 210         | 76.4               | 16044            |
| Passenger          | 0           | 76.4               | 0                |
|                    | <b>1092</b> | <b>70.15226648</b> | <b>76606.275</b> |
| CG=(Arm-56.125)/54 |             | CG= 0.25976419     | 25.98%           |