

**Addendum To  
German Weighing Document  
Grob Twin Astir Ser. No. 3521 N2387**

The aircraft was weighed in accordance with the instructions in section V of the Maintenance Manual on October 29, 2012. The following weights and center of gravity locations have been converted to pounds and inches from kilograms and millimeters.

**Weight Limitations**

**Maximum Allowable Takeoff Weight With Water Ballast** 1430 lbs.

**Maximum Weight Of Non-Load Bearing Parts** 1034 lbs.

**Weight Of Lifting Parts**

**Left Wing** 212.3 lbs.

**Right Wing** 212.96 lbs.

**Weight Of Non-Lifting Parts**

**Fuselage and fixed items (Measured At Main Wheel)** 452.32 lbs.

**Battery 1** 5.72 lbs.

**Battery 2** 5.72 lbs.

**Horizontal Tail Surfaces** 33.66 lbs.

**Operational Weights**

**Empty Weight** 922.68 lbs.

**Maximum Takeoff Weight With or Without Water Ballast** 1430 lbs.

**Maximum Cockpit Load** 508.2 lbs.

**Maximum Load Per Cockpit Seat** 242 lbs.

**Minimum Load In Front Cockpit Seat** 154 lbs.

**Empty Weight Center of Gravity**

**Weight On Main Wheel at 6.3 Inches Aft Of Datum** 816.38 lbs.

**Weight On Tail Wheel at 187.5 Inches Aft Of Datum** 106.3 lbs.

**Permissible Empty Weight Center Of Gravity Range At 922.68 lbs. Is From 27.24 To 28.62 Inches Aft Of Datum.**

**Calculated Empty Weight Center Of Gravity Is At 27.93 Inches Aft Of Datum.**

*Richard A. Birnbach*  
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