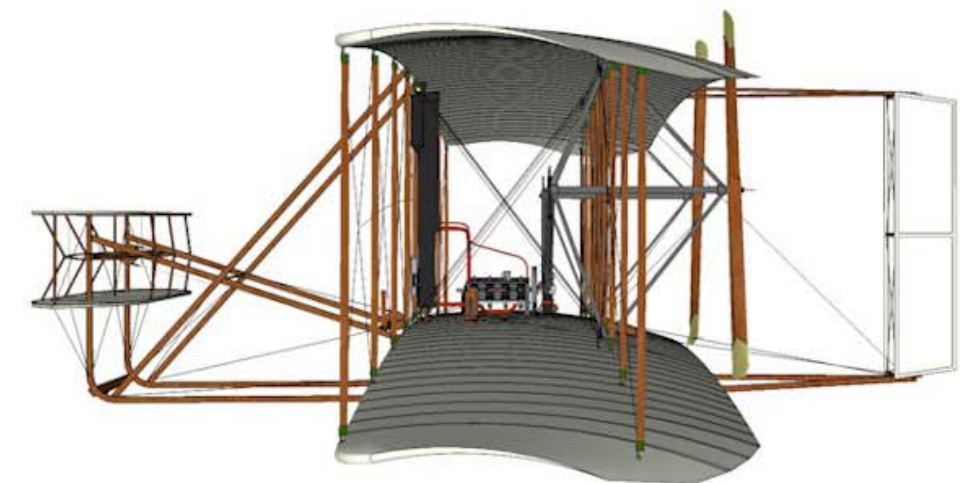
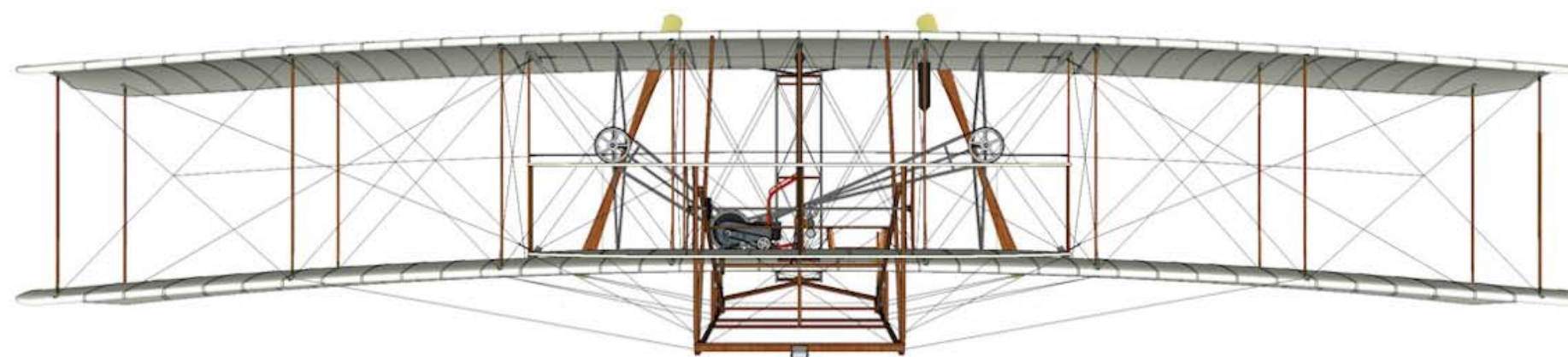
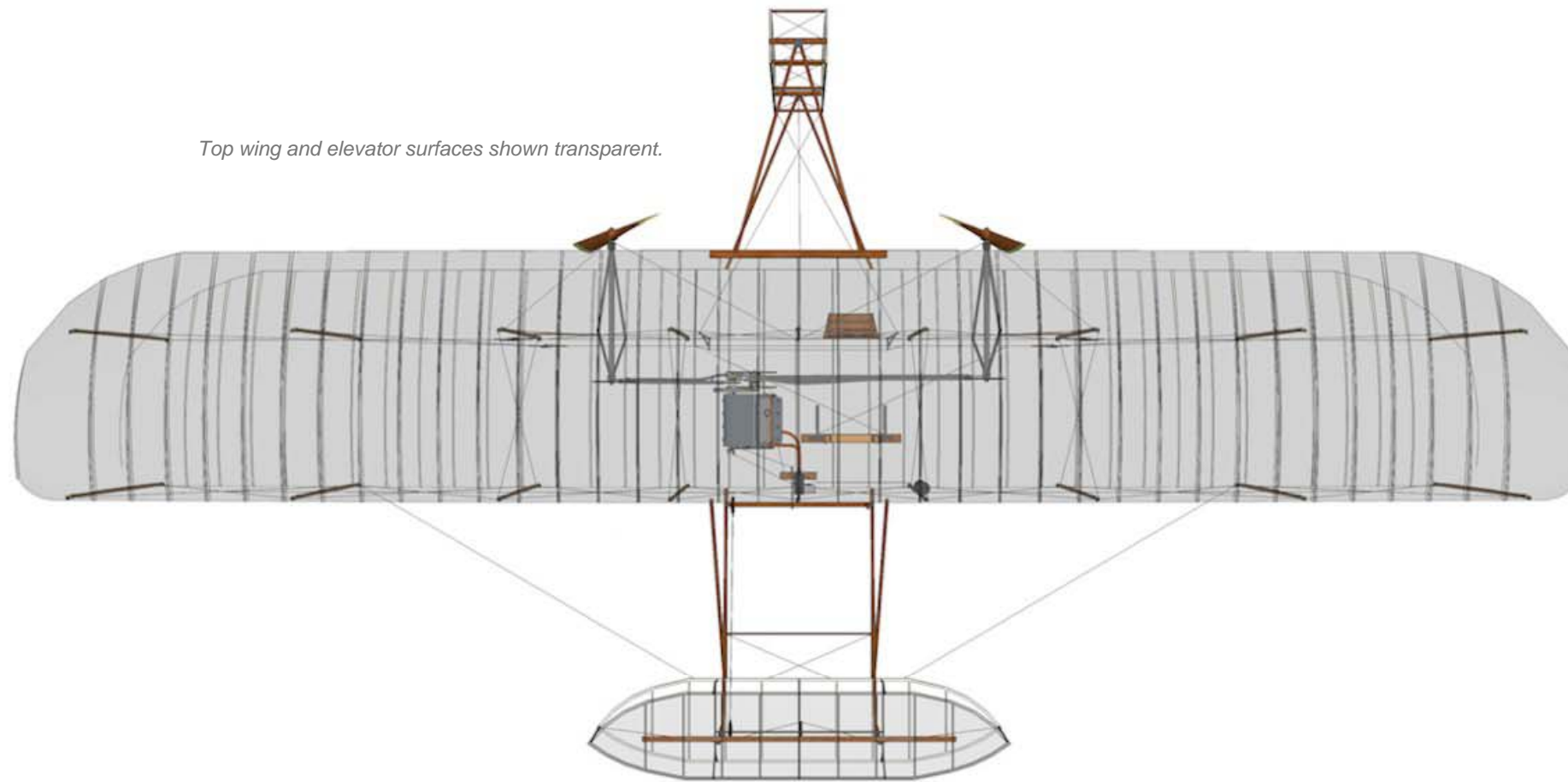




## Specifications

Top wing and elevator surfaces shown transparent.



### Dimensions:

40 ft. 4 in. (12.29 m) overall width  
 21 ft. (6.40 m) overall length  
 8 ft. 1 in. (2.46 m) height over wings  
 8 ft. 4 in. (2.54 m) height over sweep of propellers  
 6 ft. 6 in. (1.98 m) wing chord  
 1:20 wing camber  
 3° 25' angle of incidence  
 10 in. (0.25 m) wing anhedral (droop)

### Surface Areas:

510 sq. ft. (48.31 m<sup>2</sup>) wing area (upper and lower)  
 48 sq. ft. (4.46 m<sup>2</sup>) elevator area (both surfaces)  
 20 sq. ft. (1.86 m<sup>2</sup>) rudder area (both surfaces)

### Weights:

605 lbs. (274.42 kg) Total weight without pilot  
 16 lbs. (7.26 kg) fluids (water, gas, oil)  
 145 lbs. (65.77 kg) average weight of pilots

### Engine:

4-cycle gasoline, 4 cylinders  
 4 in. bore x 4 in. stroke (10.16 cm x 10.16 cm)  
 Aluminum-copper alloy crankcase  
 12 hp at 1020 rpm  
 152 lbs (68.95 kg) weight of engine  
 18 lbs (8.16 kg) weight of magneto

### Ignition:

Low tension magneto, make-and-break spark  
 Start engine with dry batteries; switch to magneto

### Lubrication:

Internal splash-and-dash activated by crankshaft

### Engine cooling:

Thermo-siphon water through radiator

### Fuel system:

Gravity fed through rubber and steel tubing  
 0.4 gal. (1.51 l) capacity tank

### Wing Loading:

1.47 lbs. per sq. ft. (7.18 kg per m<sup>2</sup>)  
 62.5 lbs. (28.35 kg) per engine horsepower

### Propellers

Twin contra-rotating propellers  
 Pusher configuration  
 Driven by roller chain, 1-in. (2.54 cm) pitch  
 8-tooth sprockets on crankshaft  
 23-tooth sprockets on propeller shafts  
 2-7/8:1 Engine to propeller rpm ratio  
 980 rpm approx. engine speed in flight  
 340 rpm approx. propeller speed in flight

## 1903 Wright Flyer

Built by Wilbur and Orville Wright of Dayton, Ohio and flown by them on December 17, 1903 near Kitty Hawk, North Carolina. They completed four flights, the longest lasting 59 seconds and covering 852 feet (259.69 meters).