

CHIPPER SS Specifications



The CHIPPER SS can be built as either Ultralight Part 103 or as Experimental Amateur Built (EAB). Below are the specifications for each.

Ultralight (Part 103) Mode

With Polini Thor 250 engine - 36 HP

Takeoff Roll: 100' (sea level, standard conditions, gross weight)

Landing Roll: 80' (sea level, gross weight)

Climb Rate: 400 fpm (sea level, standard conditions, gross wt.)

MAX Crosswind Component: Determined by pilot skill level

Cruise Speed: 45 to 62 mph, depending on configuration:

- Large tires slow the aircraft
- Unfaired lift struts slow the aircraft
- Installing a cowl speeds the aircraft

Fuel Burn @ Cruise Speed: 2.1 GPH

Maximum Fuel: 5 gallons

Seating: Single seat

Range: 100+ miles, no reserve

Gross Weight: 484 pounds (user may raise gross weight under Part 103; there is no legal requirement for any set value)

Empty Weight: 244 pounds with aluminum spars and light-weight tires and Polini Thor 250 engine

Vne: 72mph

Stall Speed: <=28 mph @ gross weight

Wing Area: 113 square feet

Wingspan: 26' 3"

Airfoil Design: Proprietary

Access / Cargo: Dual door, large cargo compartment

Design Factor: +6/-3 ultimate load; +4/-2 flight load

Maximum Pilot Weight: 250 pounds

Maximum Cargo Weight: TBD

Recommended Engines:

--1/2VW (<82 pounds); must use carbon fiber spars, small tires & rescue parachute to meet weight requirements under Part 103

Note: Turtledeck is included.

Experimental (EAB) Mode

With Rotax 503 engine

Takeoff Roll: 120' (sea level, gross weight)

Landing Roll: 100' (sea level, gross weight)

Climb Rate: 600 fpm (sea level, standard conditions, gross wt.)

MAX Crosswind Component: Determined by pilot skill level

Cruise Speed: 50 to 70 mph, depending on configuration:

- Large tires slow the aircraft
- Unfaired lift struts slow the aircraft
- Installing a cowl speeds the aircraft

Fuel Burn @ Cruise Speed: Determined by engine selection

Maximum Fuel: Determined by Builder

Seating: Single seat

Range: 200+ miles, no reserve

Gross Weight: 650 pounds

Empty Weight: 330 pounds with aluminum spars and light-weight tires

Vne: 80mph

Stall Speed: <=32 mph @ gross weight

Wing Area: 113 square feet

Wingspan: 26' 3"

Airfoil Design: Proprietary

Access / Cargo: Dual door, large cargo compartment

Design Factor: +4/-2 flight load

Maximum Pilot Weight: 250 pounds

Maximum Cargo Weight: TBD

Recommended Engines: Hirth F23, Rotax 503, others TBD

Note: Turtledeck is included.

Primary BUILD MATERIALS Utilized

(for BOTH ULTRALIGHT & EXPERIMENTAL)

- Honeycomb Aluminum
- Honeycomb Fiberglass
- Aluminum
- Baltic Birch plywood
- Foam

AIRCRAFT OPTIONS (for BOTH ULTRALIGHT & EXPERIMENTAL)

- Tricycle gear
- Hand toss parachute
- Folding wings (no cost option)
- Doors
- Cowl
- Carbon Fiber spars (saves 11 lbs.)
- Polini Thor 250 Dual Spark, water cooled, internally geared, 2 stroke engine
- E-Prop ground adjustable propeller

All specifications subject to change without notice.

