



CHALLENGER gives you the best of both worlds; the fun of an open cockpit, short field, high performance ultralight and the comfort, speed and long range of a cabin class airplane. Compare these flight performance figures and options with our competition and you will agree that Challenger is **THE BEST CHALLENGING THE REST!!**

	<i>Challenger</i>	<i>Challenger II</i>	<i>Challenger Special</i>	<i>Challenger II Special</i>
SPECIFICATIONS	SINGLE SEATER Ultralight	2 SEATER	SINGLE-SEATER "Clipped Wing"	2-SEATER "Clipped Wing"
Wingspan	31 ft. 6 in.	31 ft. 6 in.	26 ft. 0 in.	26 ft. 0 in.
Length	18 ft. 6 in.	20 ft. 0 in.	18 ft. 6 in.	20 ft. 0 in.
Height	6 ft. 0 in.	6 ft. 0 in.	6 ft. 0 in.	6 ft. 0 in.
Wing Area	142 sq. ft.	173 sq. ft.	120 sq. ft.	143 sq. ft.
Engine (standard)	Rotax "277" 28 h.p.	Rotax "447" 42 h.p.	Rotax "447" 42 h.p.	Rotax "503" 52 h.p.
Engines (optional)	Rotax "377" 35 h.p.	Rotax 503" 48 h.p.	Rotax "503" 48 h.p.	
Engines (optional)	Rotax "447" 42 h.p.	Rotax 503" 52 h.p.	Rotax "503" 52 h.p.	
Empty weight	235 lbs.	300 lbs.	260 lbs.	350 lbs.
Useful load	265 lbs.	500 lbs.	260 lbs.	500 lbs.
Ultimate load factor	+ 6 - 4	+ 6 - 4	+ 7 - 4	+ 7 - 4
Build time	40-60 hrs.	40-60 hrs.	120 hrs.	150 hrs.
Field assembly time	20 min.	20 min.	30 min.	30 min.
Airframe type	Alum. tube	Alum. tube	Alum. tube	Alum. tube
Standard covering	Sailcloth & dacron, pre-sewn	Sailcloth & dacron, pre-sewn	"Superlite"	"Superlite"
Optional covering	"Superlite"	"Superlite"		
PERFORMANCE:				
VNE	100 mph	100 mph	120 mph	120 mph
Top level speed	63 to 90 mph	75 to 90 mph	95 to 105 mph	100 mph
Cruise speed	55 to 75 mph	65 to 75 mph	75 to 90 mph	85 mph
Stall speed	25 mph	22 mph solo, 30 mph dual	28 mph	32 mph solo, 37 mph dual
Climb rate	700 to 1200 fpm	1200 fpm solo, 700 dual	1000 to 1400 fpm	1200 fpm solo, 700 dual
Take off roll	100 to 200 ft.	100 ft. solo, 200 ft. dual	100 to 150 ft.	125 ft. solo, 250 ft. dual
Glide ratio	10 to 1	11 to 1 solo, 9 to 1 dual	9 to 1	10 to 1 solo, 8 to 1 dual
Service ceiling	12,500 to 14,500 ft.	14,000 ft. solo, 12,500 ft. dual	14,000 ft.	14,000 ft. solo, 12,500 ft. dual
Fuel used at cruise	1.5 gph to 2.2 gph	2.3 gph to 4 gph	2.3 gph to 3 gph	3.5 gph

All performance data is with average 170 lb. pilots & average sea level condition

*All fabric included, does not include instruments or paint.

OPTIONS AND ACCESSORIES AVAILABLE ON ALL MODELS:

- 10 gal. fuel tank
- Lexan doors
- Cabin heat (plans)
- Flaperons

- Wheel pants
- Brakes
- Amphibious floats
- Regular floats

- Electric starter
- "Superlite"
- "Sailcloth"
- Speed fairings

- Fiberglass wingtips
- Fiberglass Nose Cone
- Instruments