

Weight and Balance

Date: 04/21/22
 Registration: N191YX
 Builder: Cotton, Bryan S
 Model: Waix
 Serial #: W0191

Datum is the tip of the spinner. Arm measurements are taken from this point.

	Utility Category	Acrobatic Category
Gross Weight:	1100 lbs	950 lbs
CG Range:	20%-32% MAC 62.8"-69.3"	23%-29% MAC 64.4"-67.7"

Empty Weight/CG			
	Weight	Arm	Moment
Left Wheel	322	54.75	17629.5
Right Wheel	314	54.75	17191.5
Tailwheel	40.5	215.75	8737.9
Aircraft Empty Weight:	676.5		43558.9
Empty CG:		64.4	

Most Aft Weight/CG, Utility Category			
	Weight	Arm	Moment
Aircraft Empty Weight:	676.5		43558.9
Pilot and Passenger:	340	76.9	26146
Baggage:	40	102	4080
Fuel:	24	45.75	1098
Weight:	1080.5		74882.9
CG:		69.30	

Most Forward Weight/CG, Utility Category			
	Weight	Arm	Moment
Aircraft Empty Weight:	676.5		43558.9
Pilot and Passenger:	170	76.9	13073
Baggage:	0	102	0
Fuel:	96	45.75	4392
Weight:	942.5		61023.9
CG:		64.75	

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Most Aft Weight/CG, Acrobatic Category

	Weight	Arm	Moment
Aircraft Empty Weight:	676.5		43558.9
Pilot and Passenger:	170	76.9	13073
Baggage:	10	102	1020
Fuel:	24	45.75	1098
Weight:	880.5		58749.9
CG:		66.72	

Most Forward Weight/CG, Acrobatic Category

	Weight	Arm	Moment
Aircraft Empty Weight:	676.5		43558.9
Pilot and Passenger:	170	76.9	13073
Baggage:	0	102	0
Fuel:	96	45.75	4392
Weight:	942.5		61023.9
CG:		64.75	

Notes:

- 1) The most forward and most aft CG limits are calculated using the FAA standard pilot and passenger weight of 170 lbs.
- 2) Minimum fuel is 4 gallons per Sonex Aircraft