

WEIGHT AND BALANCE DATA

*All CG ranges for possible flight conditions are within design limits

Component	Weight	* Arm	= Moment
Main	1034	93.50	96679
Nose	340	37.63	12792
Less Fuel	(252)	(80)	(20160)
Subtotal	1122		89311

CG Range 78.7 to 86.82 in aft of datum
Empty C.G. 79.6

Max. Gross Weight				Full Baggage, No Pax			
Item	Weight	Arm	Moment	Item	Weight	Arm	Moment
Aircraft	1,122	79.6	89311	Aircraft	1,122	79.6	89311
Fuel (6 lbs/gal)	252	80	20,160	Fuel (6 lbs/gal)	252	80	20,160
Pilot	185	97.48	18,033	Pilot	185	97.48	18,033
Passenger	170	97.48	16,571	Passenger	0	97.48	0
Baggage	71	126.78	9,001	Baggage	100	126.78	12,678
Total	1,800		153,077	Total	1,659		140,182
CG:	85.04			CG:	84.5		
Zero Fuel CG	85.86			Zero Fuel CG	88.3		

Pilot, Pax, No Baggage				Pilot, No Pax, No Baggage			
Item	Weight	Arm	Moment	Item	Weight	Arm	Moment
Aircraft	1,122	79.6	89311	Aircraft	1,122	79.6	89311
Fuel (6 lbs/gal)	252	80	21,160	Fuel (6 lbs/gal)	252	80	21,160
Pilot	185	97.48	18,033	Pilot	185	97.48	18,033
Passenger	241	97.48	23,492	Passenger	0	97.48	0
Baggage				Baggage		126.78	
Total	1,800		150,997	Total	1,559		127,503
CG:	83.89			CG:	81.79		
Zero Fuel CG	84.52			Zero Fuel CG	82.13		

N505AT Pilot Operating Handbook

Section 6 – WEIGHT AND BALANCE

Maximum Weights:

Aerobatic Category	1600 Lbs
Utility Category	1700 Lbs
Normal Category	1800 Lbs

Datum = 70 inches forward of wing leading edge (L.E.)
 Design C.G. Range = 15% to 29% of wing chord
 8.7" to 16.82" from L.E.
 78.7" to 86.82" aft of Datum

Wing L.E. = 70 inches aft of datum

Main wheels =	93.5" aft of datum
Nose wheel =	37.625" aft of datum
Fuel	80" aft of datum
Pilot and Passenger	97.48" aft of datum
Baggage	126.78" aft of datum

Aircraft weighed empty in level flight attitude.
 (Includes 8 qts. of oil, no fuel)

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