

Mass & Balance Sheet and Performance Calculations for DA40-NG Rev 2.3

FLIGHT ACADEMY					
Date:		Tail Number:			Callsign: Route:
	Mass (Kg)	Lever arm (m)	Mo	oment (Kg/m)	Center of Gravity Position [in]
Empty Mass					94 95 96 97 98 99 100 101 If MÄM 40-574
Front Seats		2.300			1310 is carried out
Rear Seats		3.250			1280 2800
Std. Baggage		3.650			
Short Extension		3.970			1216
Baggage Ext. FWD		3.890			9 1150
Baggage Ext. AFT		4.540			(a) State Mass (b) 1150 — — — — — — — — — — — — — — — — — — —
Zero Fuel Mass					1100 — 2400 <u>F</u>
Fuel Carried		2.630			
Taxi Fuel	- 0.64	2.630		- 1.683	1000 - 2200
Takeoff Mass					
Trip Fuel Used	-	2.630		-	940
Landing Mass					2.40 2.42 2.44 2.46 2.48 2.50 2.52 2.54 2.56 2000 2.53
1USG = 3.78	35L 1USG JET-A	\1 = 3.18Kg Std - 89	9Kg L	R - 124Kg	Center of Gravity Position [m]
T/O Distar	nce:	l M	eters	(Ground roll Ove	r 50ft. Obstacle ; Without fairings) V Speeds
Initial Climb Ra	ate:	Ft	'/Min	(Without fairings)	V _R V _O
Cruise Climb Rate:		Ft'/M		(Without fairings)	V ₅₀ V _{S UP}
LDG Distance:		Mete		(Ground roll Ove	r 50 ft. obstacle) V _Y Vs T/O
Accelerate-Stop:		Meter		[T/O Ground Roll -	70m + LDG Ground Roll] V _{REF} - V _{SO}
Fuel Calculations Local - 70% @ 6.1 GPH Traffic Pattern - 60% @ 5.1 GPH			GPH		Nome DIC Americal
Fuer Calculation		Traffic Pattern - 60% @ 5.1 GPh		1	Name Mass (Kg) PIC Approval
(Block Tim	e) Reserve	Extra Required		्र Instructor	License №:
Time			$-\parallel$	Student	
USG			Rear	Observer S	Signature:
Kg			Ⅱ ~	Bags	