



# WEIGHING REPORT

Model: DA20-C1

Serial Number: C0786

Registration N481SA

Data with reference to the Type Certificate Data Sheet and the Airplane Flight Manual.

Reference Plane: Leading edge of wing at root rib

Horizontal reference line: Wedge 1000:55.84, 200mm (78.7 in) aft of the step in fuselage at the canopy edge

Equipment Inventory dated: July 2, 2025

Cause for Weighing:

**ORIGINAL**

Weight and Balance Calculations (Weighing at the wheels)

Weight Condition: Include brake fluid, hydraulic fluid, engine oil and unusable fuel

Support	Gross		Tare		Net	
MAIN G1LH	222.17	kg	0	kg	222.17	kg
MAIN G1RH	219.84	kg	0	kg	219.84	kg
NOSE G2	123.94	kg	0	kg	123.94	kg
Empty Weight					565.95	kg

Lever Arm		
X1LH =	577.85	mm
X1RH =	590.55	mm
X2 =	-1120.775	mm

Calculate the Empty Weight: $G = \text{MAIN G1LH} + \text{MAIN G1RH} + \text{NOSE G2}$	G =	565.95 kg
Weight including required equipment for operation must be between:		
Calculate the Empty Weight Moment: $M = (G1LH \times X1LH) + (G1RH \times X1RH) + (G2 \times X2)$	M =	119298.59 kg-m
Calculate the Empty Weight Center-of-Gravity position: $XCG = M/G$	XCG =	0.21 m
Maximum Take Off Weight 800 kg		
Maximum useful load = MTOW - G		234.05 kg

Support	Gross		Tare		Net	
MAIN G1LH	489.80	lbs	0	lbs	489.80	lbs
MAIN G1RH	484.66	lbs	0	lbs	484.66	lbs
NOSE G2	273.24	lbs	0	lbs	273.24	lbs
Empty Weight					1247.70	lbs

Lever Arm		
X1LH =	22.75	in
X1RH =	23.25	in
X2 =	-44.13	in

Calculate the Empty Weight: $G = \text{MAIN G1LH} + \text{MAIN G1RH} + \text{NOSE G2}$	G =	1247.70 lbs
Calculate the Empty Weight Moment: $M = (G1LH \times X1LH) + (G1RH \times X1RH) + (G2 \times X2)$	M =	10354.58 in-lbs
Calculate the Empty Weight Center-of-Gravity position: $XCG = M/G$	XCG =	8.30 in
Maximum Take Off Weight 1764 lbs		
Maximum useful load = MTOW - G		516.30 lbs

Record the Empty Weight (G) and the Empty-Weight Moment (M) in the Airplane Flight Manual.

Place / Date	DAIC - CYXU July 2, 2025	Authorizing Stamp DA Q 81	Authorizing Signature 
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