

SLING AIRCRAFT (PTY) LTD
MASS AND BALANCE REPORT (SLING 2)

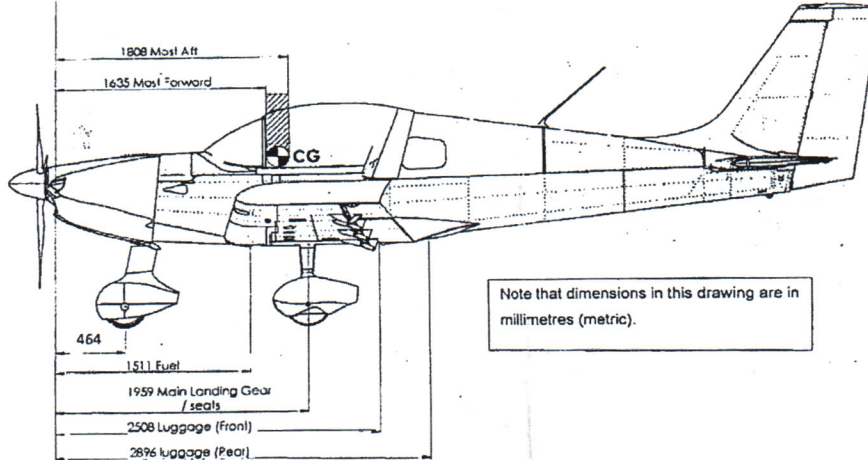
N171HA

Empty: 940.27 lbs

Empt Mom: 62264.7 lbs inch.

AIRCRAFT TYPE : Sling 2
 SERIAL NO. : 427a
 REGISTRATION : N171HA

* DATUM IS SET AT THE CENTRE POINT
 OF THE FRONT FACE OF THE PROP FLANGE



The method of calculation of the aircraft empty mass, total aircraft moment, centre of gravity and percentage mean aerodynamic chord appear from formulae set out in the table and the formulae below.

(Comply with the provisions of the aircraft maintenance manual when performing aircraft empty mass and balance)

	Item	Weight [kg]	Arm [mm]	Moment [kg.mm]
Aircraft Empty CG	Nose Wheel	$W_N = 79.0$	$L_N = 464$ mm	$M_N = W_N \times L_N = 36656$ kg.mm
	Left Main Wheel	$W_L = 176.5$ kg	$L_L = 1959$ mm	$M_L = W_L \times L_L = 345764$ kg.mm
	Right Main Wheel	$W_R = 171.0$ kg	$L_R = 1959$ mm	$M_R = W_R \times L_R = 334989$ kg.mm
	Computed CG Empty			Total aircraft moment:
		$W_E = 426.5$ kg		$M_T = 717409$ kg.mm

$$\text{Aircraft CG} = \frac{\text{Total aircraft moment}}{\text{Aircraft empty weight}} = \frac{M_T}{W_E} = \frac{717409}{426.5} = 1682 \text{ mm}$$

$$\text{CG as percentage of MAC} = \frac{(\text{CG} - 1366)}{1339} \times 100 = \frac{1682 - 1366}{1339} \times 100 = 23.6 \%$$

I hereby certify that the information as recorded above is correct in every respect to the best of my knowledge

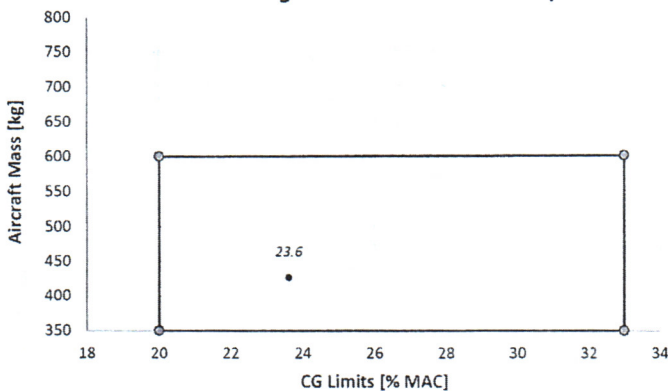
Name: Erick Hernandez

Signature: 

A&P No. 5039986

Date: 06/12/2025

Sling 2 Allowable CG Envelope



NOTES:

Artex ELT.