

**Eurocopter Model EC-135
WEIGHT AND BALANCE**



Step 1.

Make: Eurocopter
Aircraft "N" Number: N307PH **Model:** EC135 P2 **Aircraft S/N:** 0398
Equipment installed when weighed:
Type of Landing Gear: Eurocopter Basic Landing Gear with Metro Aviation Inc., Landing Gear Skid extensions (STC SR09230RC).
Name of Scales: Jackson Aircraft Weighing System **Scale S/N:** 22-FD7832
Scale Calibration Date: September-22
Location of Weighing: Lexington, KY Maintenance Center
Weighed with unusable fuel, all oils serviced full and No Ballast? N/A ← If weighed with ballast, make a note here of weight & arm.

Step 2.

Scale Weight Area

SCALE READINGS (3 EACH JACKPOINTS)

Enter all scale readings here.
 Note: Enter scale corrections in the 2nd column (S/C) if required.

	SCALE	S/C	NET
A. (FS 4709 mm, BL -533.5 mm) Enter the L/H Aft (Red) jack reading here ----->	870.1		870.1
B. (FS 4709 mm, BL+533.5 mm) Enter the R/H Aft (Green) jack reading here ----->	911.6		911.6
TOTAL	1781.7		1781.7
C. (FS 2675 mm, BL -0-) Enter the Forward (Yellow) jack reading here ----->	183.1		183.1
TOTAL	1964.8		1964.8

LONGITUDINAL C.G. AS WEIGHED:

$$\begin{array}{rcl}
 \text{FS 4709 mm} \times (1781.7) \text{ KGS} & + & \text{FS 2675 mm} \times (183.1) \text{ KGS} = 8879817.80 \\
 & & \text{Total Weight (kgs)} \quad 1964.8 \quad = \quad \boxed{4519.45}
 \end{array}$$

LATERAL C.G. AS WEIGHED:

For Lateral C.G.: Left (-), Right (+)

$$\begin{array}{rcl}
 \text{FS +533.5 mm} \times (911.6) \text{ KGS} & + & \text{FS -533.5 mm} \times (870.1) \text{ KGS} = 22140.25 \\
 & & \text{Total Weight (kgs)} \quad 1964.8 \quad = \quad \boxed{11.27}
 \end{array}$$

Step 3.

Final Calculations

	As Weighed	Weighed Arm	Current Weight	Current Arm
Empty Weight =	1964.8	4519.45	1962.3	4519.73

DESCRIPTION	WEIGHT	LONGITUDINAL		LATERAL	
		ARM, mm	MOMENT, kgmm	ARM, mm	MOMENT, kgmm
Units of measure	Weight, kgs				
Empty Weight	1964.8	4519.45	8879818	11.27	22140
Add unusable fuel 7.6 kg			0		0
			0		0
			0		0
Jacking Bracket Fwd	-0.5	2675.0	-1338	0.00	0
Jacking Bracket L/H Aft	-1.0	4709.00	-4709	-533.50	534
Jacking Bracket R/H Aft	-1.0	4709.00	-4709	533.50	-534
Total	1962.3	4519.73	8869062	11.28	22140

Note 1: To maintain a standard. It is better to remove weight than add weight if it is possible.

Note 2: Un-useable fuel. If aircraft has been completely defueled, it is recommended that you add fuel for leak check and then weigh after sumping.

Note 3: Note: If lateral arm exceeds 25.4 mm., contact Lafayette Quality Assurance.

September 1, 2023
 Date Aircraft Weighed

September 1, 2023
 Date Weight & Balance Checked

Emanuel Wilson
 Print Name Signature Certificate Number
 Of Person Performing the Weighing

Michael W. Luecke
 Print Name Signature Certificate Number
 Of Person Checking the math and C.G.