N618AP

2014 Seamax M-22

Weight & Balance

MSN: 122

Prepared by the worldwide aviation specialists at RidgeAire, Inc.

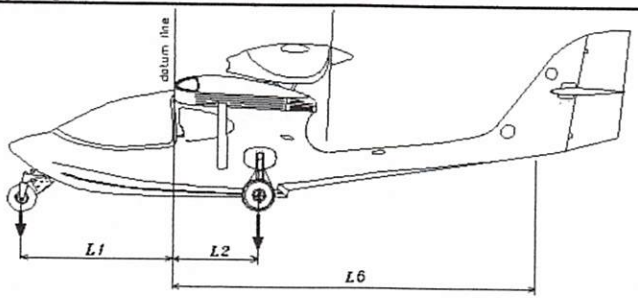
SEAMAX AIRCRAFT

Empty Weight & CG position

Form S.A 015
Rev.01

Tail Number N618AP
Model **SEAMAX M-22**
Datum **Wing Leading Edge**

Maker SEAMAX AIRCRAFT LTDA
S/N: ***122***



Weight Scale: LONGACRE
S/N VS800W16C-00133
Model: Proform 67644
Date last certfication:

Note: Aircraft in operation at

1. Pesagem

Pontos de reação		units	① Scale Value lb	② Tara lb	③=①-② Weight lb	④ Arm in	⑤=③④ Moment in.lb
1.1 Left MLG	L2 LH (+)		442.0		442.0	32.5	14,365.0
1.2 Right MLG	L2 RH (+)		460.0		460.0	32.5	14,950.0
1.3 Third point	L1(-) or		3.0		3.0	-57.50	(172.5)
1.4 Third point	L6(+)		0.0		0.0	-57.50	-
1.4		totals			905.0		29,142.5

Note: Arms L1, L2 or L6 shall be measured for each specific aicraft

Notes; **a) Empty fuel tanks, lines with fuel, engine with oil, radiator with water**
b)
c)

2. Items to add or to subtract

Acft Basic Itens *not installed in the aircraft when aircarft was weighte (individual weight* ***shall have plus*** *signal)*

2.1 Inflight pitch propeller	26	62	1612
2.2			0
2.3			0
2.4			0

Not Acft Basic Items *installed in the aircraft when aircarft was weighte (individual weight* ***shall have minus*** *signal)*

2.5 Ballast	-15	25	-375
2.6		32.5	-487.5 0
2.7			0
2.8			0

3. Empty Weight and C.G.

			⑥	⑦=⑧/⑥	⑧
3.1 Basic Empty Weight (**BEW**)	(lb)	equal 1.4 + (2.1 a 2.8)	**916.0**		**30,379.5**
3.2 CG for Basic Empty Weight (**CGBEW**); inchs from Datum			890	33.17	

Date: 9 Sep 2021
Operator Rex Johnson AP2712583
Rex Johnson

4. Notation

Cell to INPUT data	
CALCULATED usefull data	
CALCULATED data	

SEAMAX AIRCRAFT — WEIGHT AND BALLANCE

Form S.A 015
Rev.01

Tail Number N618AP | Maker Seamax Aircraft Ltda
Model Seamax M-22 | S/N: 122
Datum Wing Leading Edge | Fuel density 5.87 lb/gal

Ref.	ITEM		unidades	① Weight lb	② Arm in	③=②① Moment lb.in
1. Basic Empty Weight (BEW)				916		30,380
2.1	Left Seat CG			190	-1.00	-190
2.2	Right Seat CG				-1.00	0
2.3	Baggage Compartment			0	15.50	0
Note Seats travel -1 inch to +1 inch from center position						
2. Basic Operational Weight (BOW)			(equal to 1. + 2.1 to 2.3)	1,106		30,190
Note: **IN** item use plus signal, **OUT** item use minus signal for the weight						
3.1	Ballast (std weight 15 lbs)			15	-56.85	-853
3.2						0
3.Zero Fuel Weight (ZFW)			(equal to 2. + 3.1 + 3.2)	1,121	26.17	29,337
4.1	Fuel for Taxi, Climb and Cruise	8.5	gallons	50		
4.2	Reserve Fuel (alternate)	0	gallons	0		
4.3	Fuel for descent and hold		gallons	0		
4.4	***Total Fuel*** (4.1+4.2+4.3)	8.5	gallons	50	55.00	2,744
4. Ramp Weight			(equal to 3. + 4.4)	1,171		32,081
5.1	Fuel for taxi		gal	-	0	0
5. Take-off Weight			item 4 + 5.1	1,171		32,081
	CG Take-off (inch to DATUM)				27.40	
6.1	Estimate fuel comsumption to destiny	8.5		50		
6.2	Fuel at Landing	(4.4 - 6.1)	0	0	55.00	0
6. Landing Weight			(3. + 6.2)	1,121		29,337
	CG Landing (inch to DATUM)				26.17	

date 9 sep 2021 | operator Rex Johnson AP2712583

Rex Johnson

7. Design Limits

7.1	Maximum Take Off Weight		550 kg	1210 lb		
7.2	C.G limits	forward	17.70	aft 29.50 in		74.93 cm
7.3	Solo Flight (pilot Requires 14 lb of ballast at **56,85** ahead of datum					
7.4	Maximum Fuel capacity			24.5 gallons		
7.5	Maximum Bagagge capacity			20.0 lbs		
7.6	Weight & Most Forward CG (landing)	Seats (380 lb), Fuel (0 gal), Bag (10 lb),		1160		21.38 in
7.7	Weight & Most Forward CG (take off)	Seats (380 lb), Fuel (8,5 gal), Bag (10 lb),		1210		22.76 in
7.8	Weight & Most aft CG (landing)	Seats (165 lb), Fuel (0 gal), Bag (0 lb), ballast		949 lb		25.36 in
7.9	Weight & Most aft CG (take-off)	Seats (165 lb), Fuel (13 gal), Bag (0 lb), ballast		1025 lb		27.56 in
7.10						
7.11	Flight Test Weight			lb		in

8. Notation

Cell to INPUT data	
CALCULATED usefull data	
CALCULATED data	
Factory average values	XX

SEAMAX AIRCRAFT