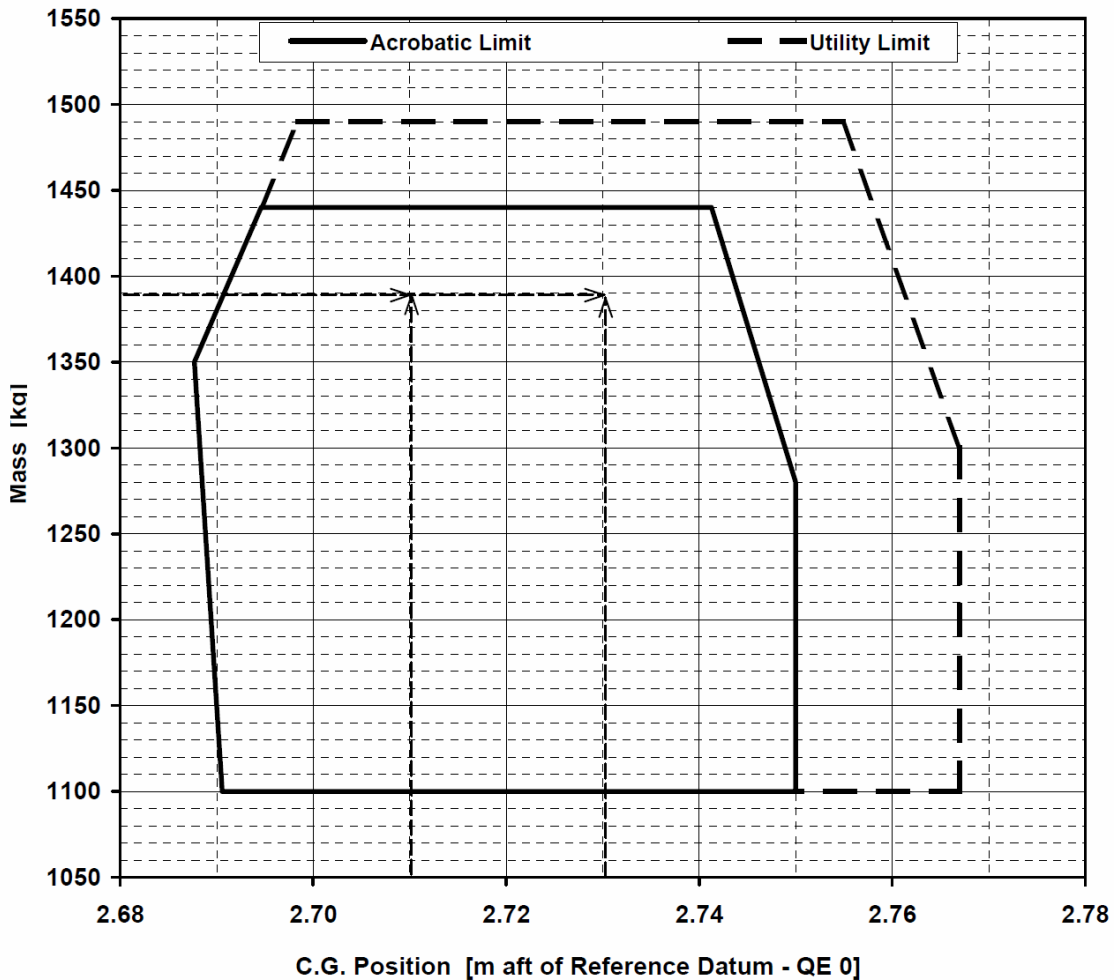


WEIGHT AND BALANCE GROB 120 A-F MEDIUM AIRCRAFT BASIC MASS: 1112,16 Kg BASIC MASS MOMENT: 2999,49 Kg m		Medium or used A/C	Used A/C	Seat position				
				forward			rearward	
		Mass	Δ mass and corrected mass	Mass Moment	Δ Mass moment and corr. moment	C.G position	Mass Moment	Δ Mass moment and corr. moment
[Kg]	[Kg]	[Kg m]	[Kg m]	[m]	[Kg m]	[Kg m]	[m]	
1	Basic mass and mass moment							
2	Pilot and co-pilot							
3	Baggage							
4	ZFW mass and mass moment (sum of 1, 2 and 3)							
5	Dep. airfield: litres of usable fuel							
6	Total mass and mass moment with fuel (sum of 4 and 5)							
7	Arr. airfield 1: litres of usable fuel							
8	Total mass and mass moment with fuel (sum of 4 and 7)							
9	Arr. airfield 2: litres of usable fuel							
10	Total mass and mass moment with fuel (sum of 4 and 9)							
11	Arr. airfield 3: litres of usable fuel							
12	Total mass + mass moment with fuel (sum of 4 and 11)							

Check the calculated values in the graph " permissible center of gravity limits". Check **corrected** mass and mass moment in the graph "permissible mass moments limits" (see verso)

Permissible Center of Gravity Limits



Basic mass and mass moment of Grob 120 A-F				
Reg.	Mass (Kg)	Moment	Δmass	Δmoment
KA	1110,40	2992,45	-1,76	-7,04
KB	1106,10	2977,69	-6,06	-21,80
KC	1103,70	2974,30	-8,46	-25,19
KD	1107,40	2985,16	-4,76	-14,33
KE	1105,90	2980,64	-6,26	-18,85
KF	1108,10	2986,55	-4,06	-12,94
KG	1108,10	2986,12	-4,06	-13,37
KH	1111,30	2993,00	-0,86	-6,49
KI	1113,20	2998,93	1,04	-0,56
KJ	1107,70	2985,06	-4,46	-14,43
KK	1110,30	2996,72	-1,86	-2,77
KL	1106,30	2979,24	-5,86	-20,25
KM	1112,00	2994,08	-0,16	-5,41
KN	1117,30	3009,63	5,14	10,14
KO	1121,50	3030,17	9,34	30,68
KP	1123,20	3039,48	11,04	39,99
KR	1125,70	3054,24	13,54	54,75
KS	1120,60	3027,33	8,44	27,84

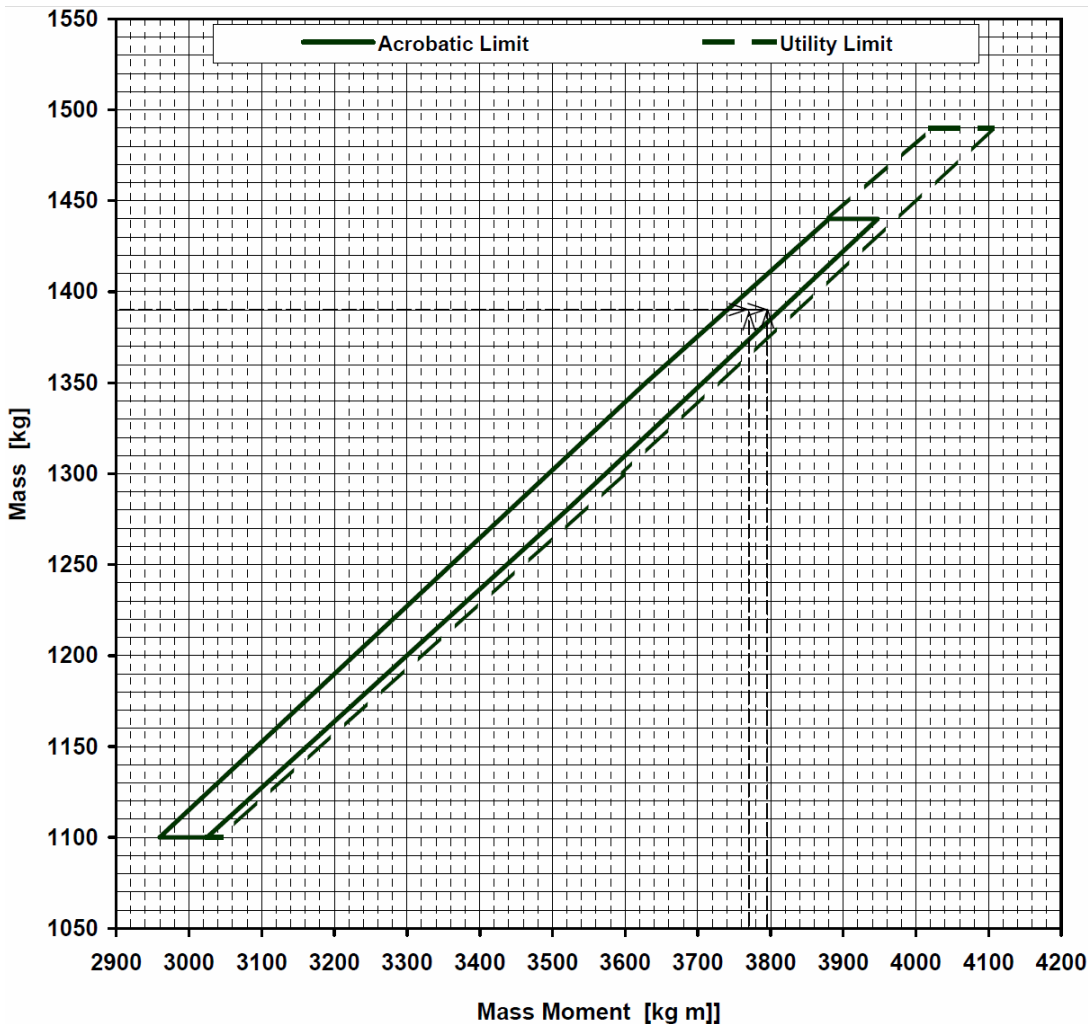
Pilot and copilot mass with 2x20 Kg		
Mass (Kg)	Fwd mt	Aft mt
160	433.67	475.34
165	452.61	490.12
170	471.56	504.9
175	485.22	519.67
180	498.88	534.44
185	512.77	549.22
190	526.66	564.00
195	540.54	578.77
200	554.42	593.54
205	568.31	608.32
210	582.2	623.10
215	596.09	637.87
220	609.98	652.64
225	623.86	667.42
230	637.74	682.20
235	651.63	696.97
240	665.52	711.74

Fuel loading table		
Vol (L)	Mass (Kg)	Moment
14	10	26.75
28	20	53.50
42	30	80.25
56	40	107.00
69	50	133.75
83	60	160.50
97	70	187.25
111	80	214.00
125	90	240.75
139	100	267.50
153	110	294.25
167	120	321.00
180	130	347.75
194	140	374.50
210	151	403.90
222	160	428.00
236	170	454.75
252	181	484.20

Lever arm for fuel: 2.675m
100 LL gravity: 0,72 Kg/L

Permissible Mass Moment Limits

Check corrected mass and mass moment



Baggage table	
Mass (Kg)	Moment
5	19
10	38
15	57
20	76
25	96
30	115
35	134
40	153
45	172
50	191