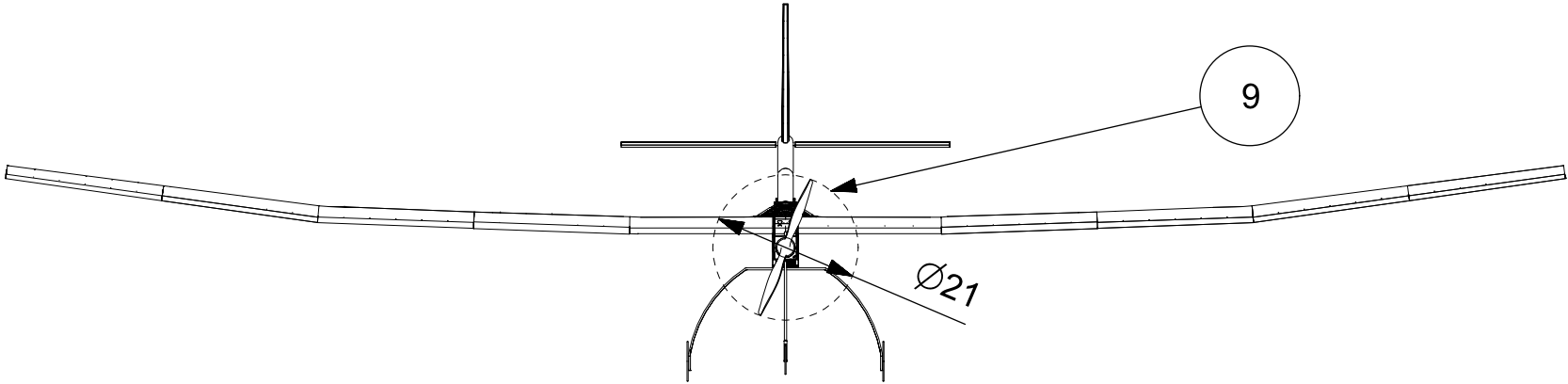


Mass and Balance					Part list		
No.	Part	Mass [lbs]	Arm [in.]	Moment [in.*lbs]	No.	Part	Specification
1.	Wing	3.44	6.77	23.29	1	Fuselage	
2.	Tailboom	2.09	43.31	90.70	2	Wing	Span: 216in. Area: 3162sq.in. Aspect ratio: 15
3.	Fuselage	1.43	-10.63	-15.23	3	Tailboom	Split in two parts
4.	Battery 5000mAh	1.65	-21.65	-35.80	4	Vertical stabilizer	Height: 17.7in. Area: 174sq.in. Aspect ratio: 1.8
5.	Electronic eq.	0.44	5.91	2.60	5	Horizotna stabilizator	Span: 45in. Area: 405sq. in. Aspect ratio: 5
6.	Battery 1000mAh	0.26	4.72	1.25	6	Main landing gear	Two wheels 4.7in. diameter
7.	Safety plug	0.44	-2.76	-1.22	7	Forward landing gear	Single wheel 3.9in. diameter
8.	Landing gear servo	0.3	-21.65	-0.72	8	Motor and ESC	Motor: T-Motor NM605 320KV ESC: APD 100A F3 max current100A
9.	ESC	0.26	-24.41	-6.46	9	Propeller	APC 21x12
10.	Motor	0.79	-28.35	-22.50	Servo spec		
11.	Propeller	0.31	-29.53	-9.11			
12.	Main landing gear	0.88	9.84	8.68	6x aileron 2x horizotnal stabilizator 1x landing gear 1x rudder		
13.	Forward landing gear	0.55	-21.65	-11.93			
14.	Horizotnal stabilizator	0.51	90.55	45.92	KST Micro X08 Plus Wing momnet: 0.38 ft/lbs		
15.	Vertical stabilizator	0.44	93.15	41.07			
16.	Balast	0.32	-27.56	-8.81			
Empty C.G.		13.87	38% of MAC				
17.	Cargo	18.30	6.07	6.61			
MTOW C.G.		32.17	33% of MAC				



Team number 035	WUT Regular	Warsaw University of Technology
01/29/2023	Design M. Włodarczyk	Scale 1:25