

Automated Fluid Dispenser

29/10/23

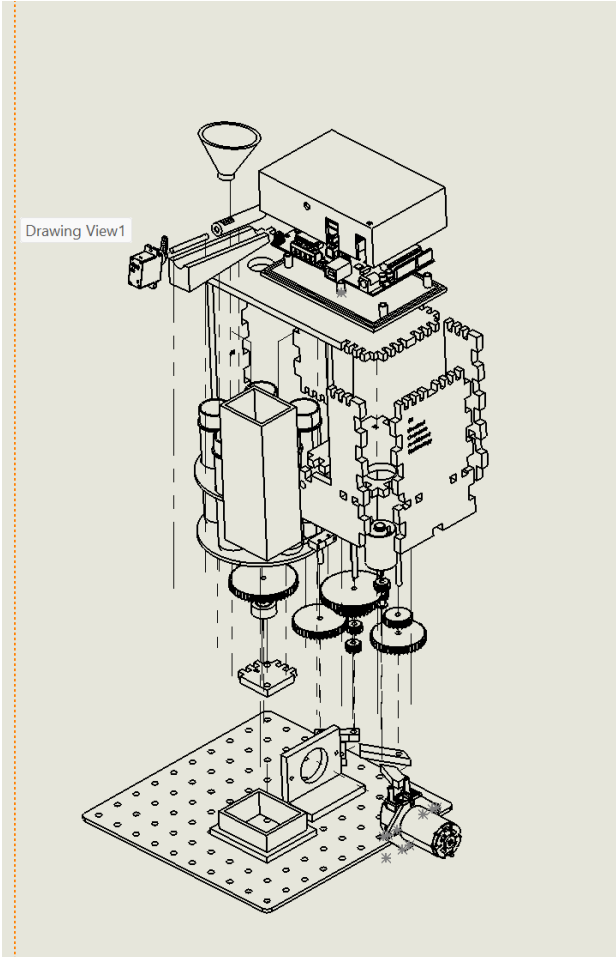
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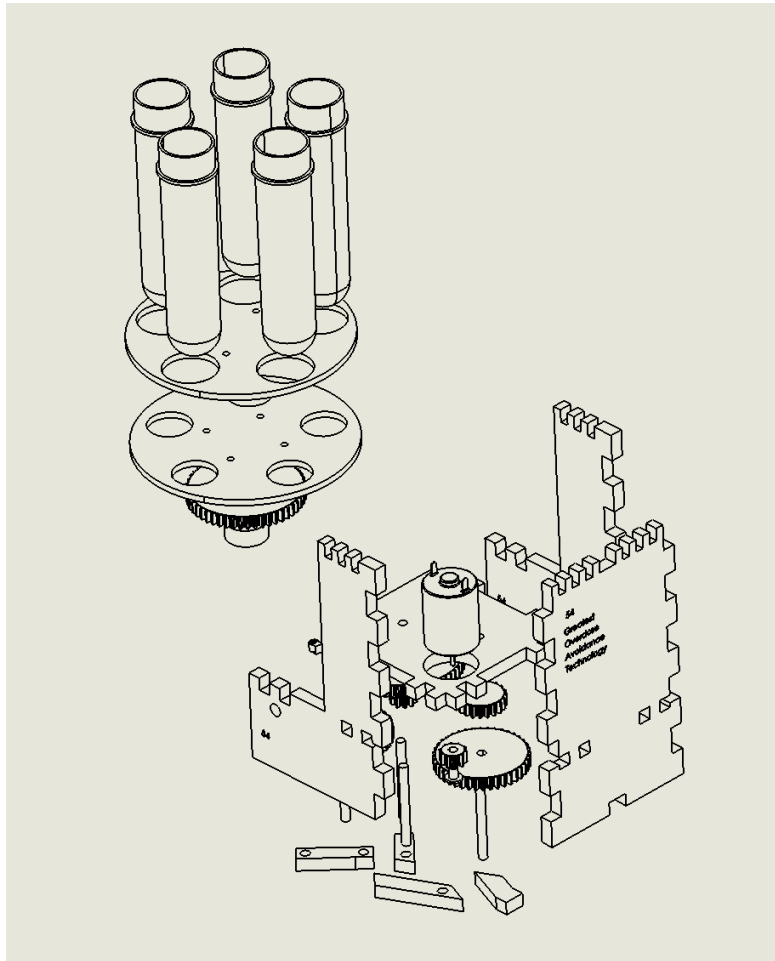
1. Exploded Views

Below is an exploded view of the entire assembly and each subassembly

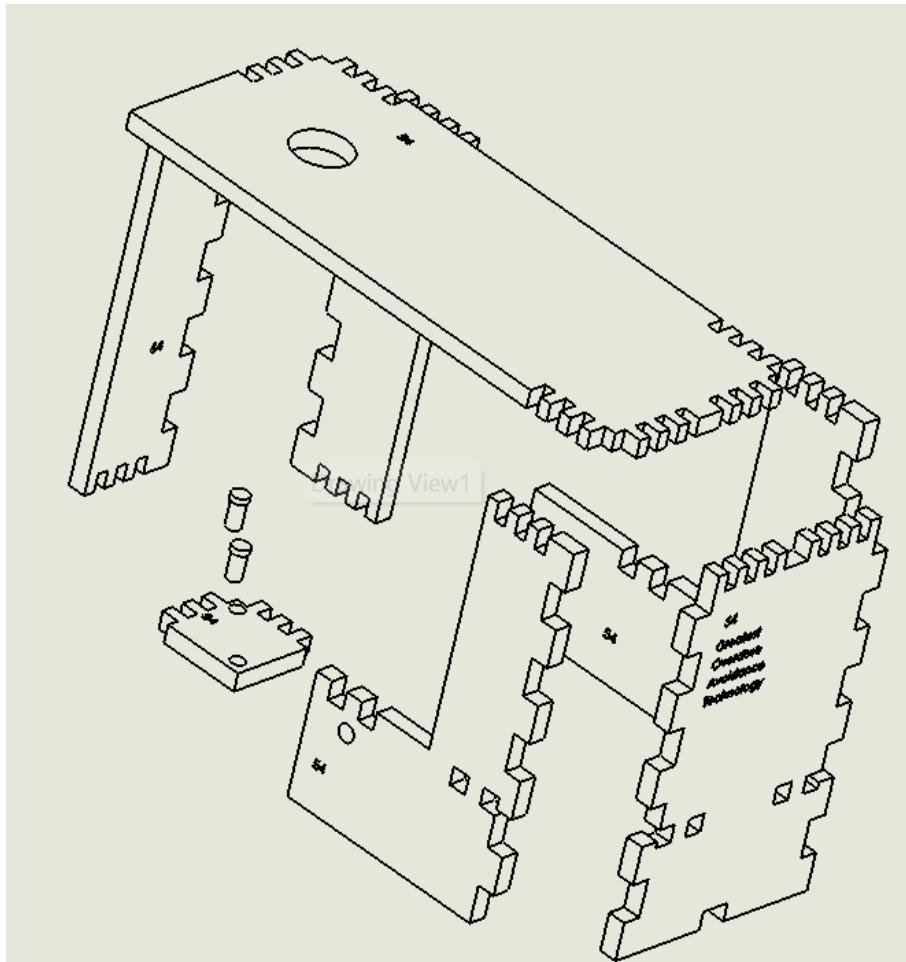
1.1 Exploded View of the Entire Assembly



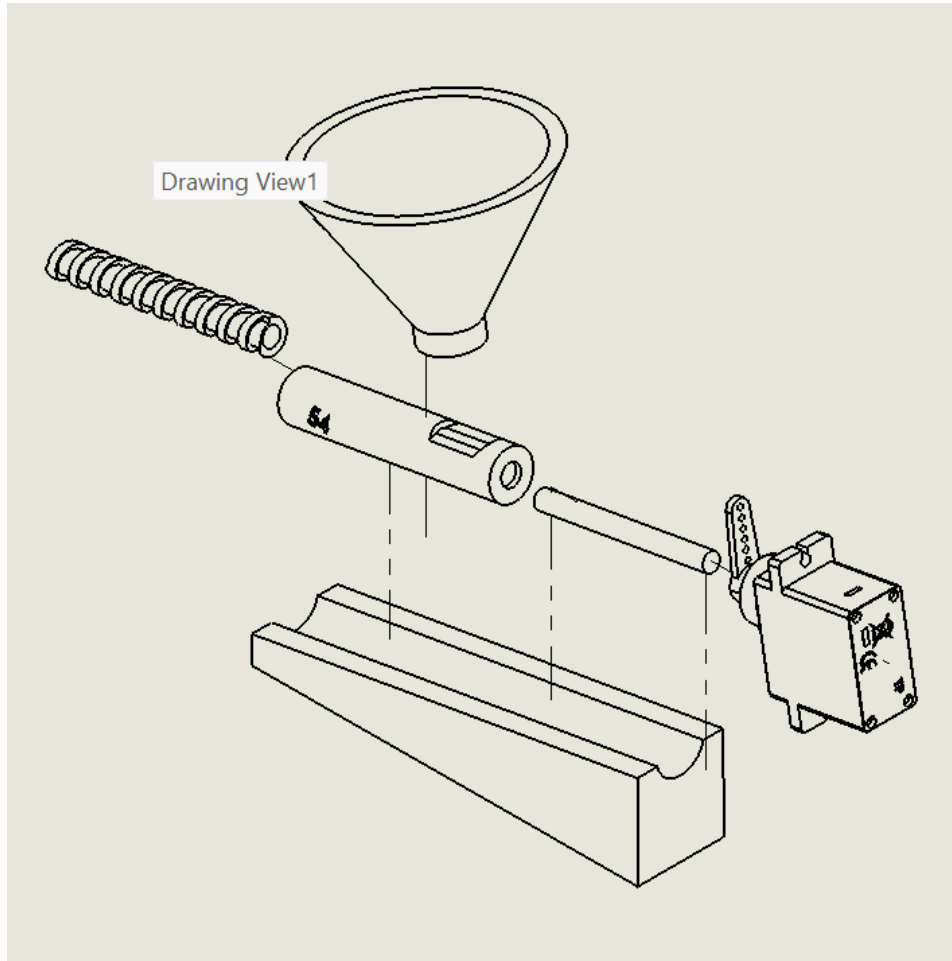
1.2 Exploded View of Gearbox and Turntable



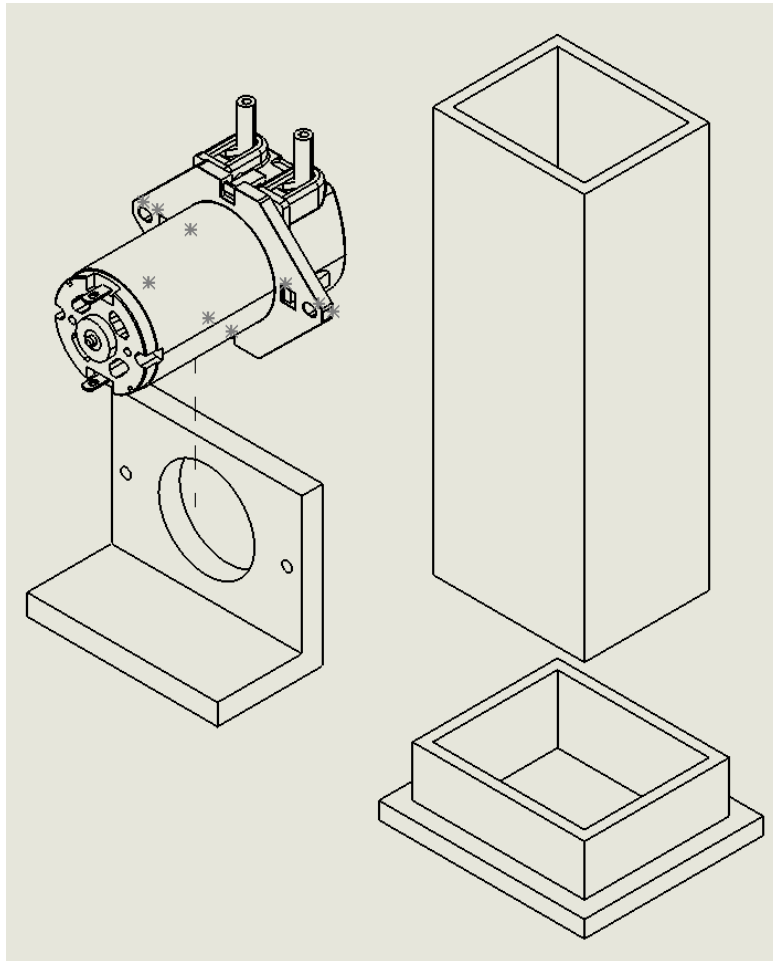
1.3 Exploded View of Mast and Top of the Mast



1.4 Exploded View of Powder Dispensary



1.5 Exploded View of Liquid Dispensary



2. Bill of Materials

Below is a bill of material generated from SolidWorks with all items and the quantity of each one.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	054_10T_NOPRINT_N3	10 Tooth Gear	3
2	054_20T_NOPRINT_N1	20 Tooth gear	1
3	054_40T_NOPRINT_N2	40 tooth gear	2
4	054_50T_NOPRINT_N2	50 tooth gear	2
5	054_30T_NOPRINT_N1	30 tooth gear	1
6	DCMotor1	DC motor	1

7	054_Bushing_NOPRINT_n1	bushing	1
8	054_Shaft_NOPRINT_N4	gearbox shaft	5
9	054_GearboxBack_AC_N1	gearbox back	1
10	054_Pegboard_NOPRINT_N1	pegboard	1
11	054_mastwall_AC_N2	wall of mast	2
12	054_topofmast_AC_N1	top of mast	1
13	054_bracket_AC_N1	bracket for mast	1
14	054_Peg_NOPRINT_N2	peg for mast	2
15	054_GearboxSide2_AC_N1	gearbox side 2	1
16	054_GearBoxRoof_AC_N1	gearbox roof	1
17	054_Rack_NOPRINT_N1	test tube rack	1
18	054_TestTube_NOPRINT_N5	test tube	5
19	054_PumpHolder_NOPRINT_N1	holder for pump	1
20	054_Pump_NOPRINT_N1	pump	1
21	054_Reservoir_NOPRINT_N1	reservoir	1
22	054_ReservoirHolder_NOPRINT_N1	reservoir holder	1
23	054_LimitSwitch_NOPRINT_N1	limit switch	1
24	054_GearboxSide1_AC_N1	gearbox side 1	1
25	054_GearboxBottom1_AC_N1	gearbox bottom segment 1	1
26	054_GearboxBottom2_AC_N1	gearbox bottom segment 2	1

27	054_GearboxBottom3_ AC_N1	gearbox bottom segment 3	1
28	054_GearboxBottom4_ AC_N1	gearbox bottom segment 4	1
29	054_ArduinoHousingBo ttom_NOPRINT_N1	arduino housing bottom	1
30	054_ArduinoUno_NOPR INT_N1	arduino uno	1
31	054_Motorshield_NOPR INT_N1	motorshield	1
32	054_ArduinoHousingTo p_NOPRINT_N1	arduino housing top	1
33	054_BearingInnerRing_ NOPRINT_N1	bearing inner ring	1
34	054_BearingOuterRing_ NOPRINT_N1	bearing outer ring	1
35	054_Bearing_NOPRINT_ N5	bearing ball	5
36	054_NewPowderFunne l_3D_N1	funnel	1
37	054_PowderWormDrive _3D_N1	worm gear	1
38	054_PowderHousing_3 D_N1	powder housing	1
39	054_PowderStand_NO PRINT_N1	stand for housing	1
40	Servo_SG90 - Updated	servo motor	1