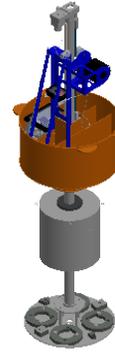


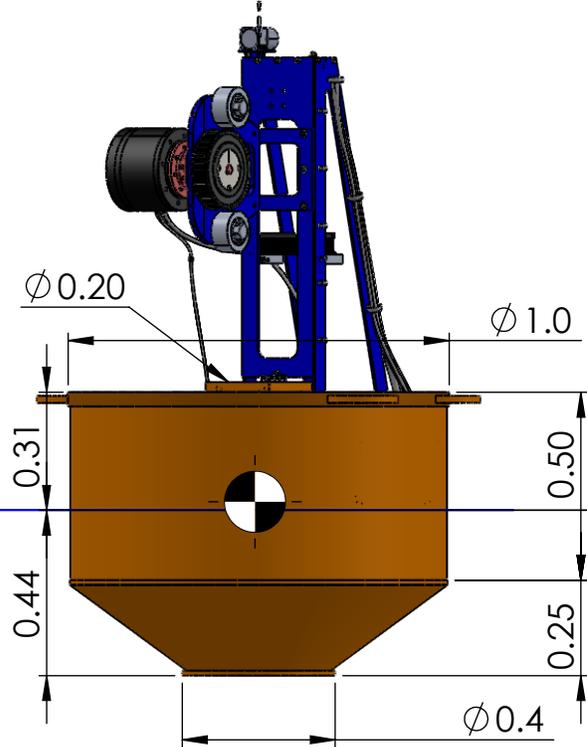
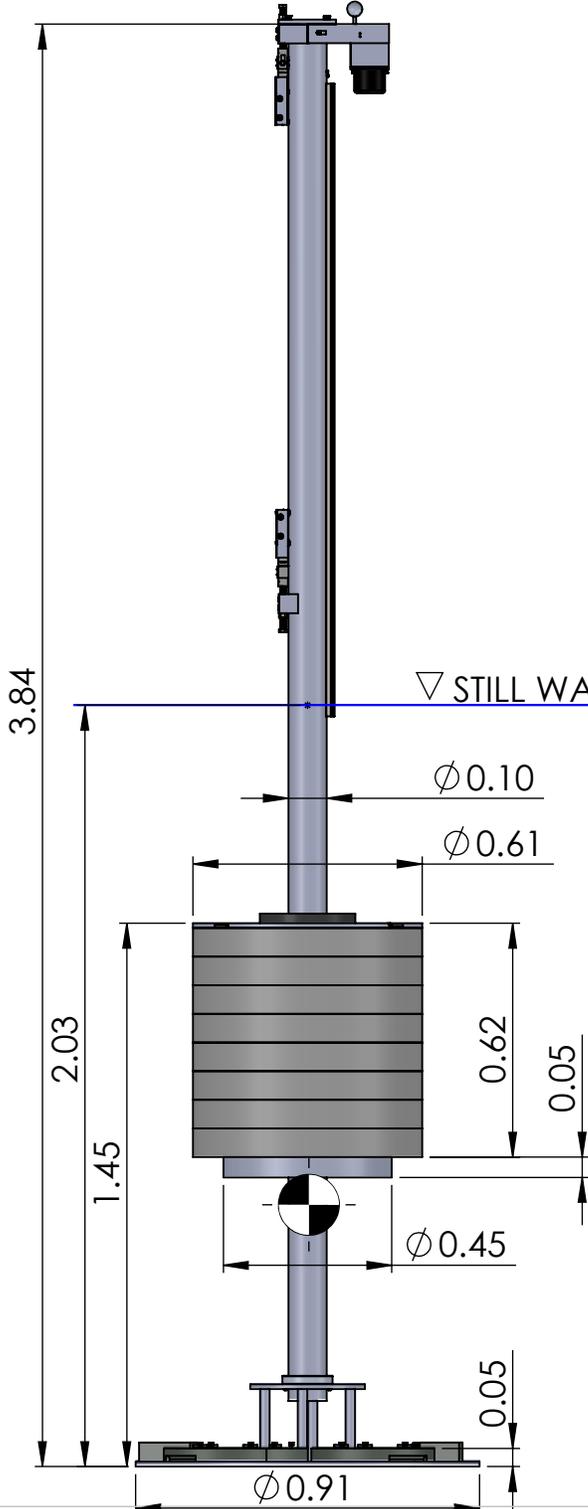
### Spar Mass Properties(LUPA-A1200)

- Mass = 202.21 kg
- Center of mass = (-0.01,0.00,-1.34)m
  - As taken from the still water level
- Principal axes of inertia and principal moments of inertia(kg\*sq-m)
  - Px = 304.87(roll)
  - Py = 305.25(pitch)
  - Pz = 15.68 (yaw)



### Float Mass Properties(LUPA-A1100)

- Mass = 246.23 kg
- Center of mass = (-0.01,0.01,0.02)m
  - As taken from the still water level
- Principal axes of inertia and principal moments of inertia(kg\*sq-m)
  - Px = 64.38(roll)
  - Py = 66.36(pitch)
  - Pz = 17.15(yaw)



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN METERS			 <b>OREGON STATE UNIVERSITY</b>
<b>TOLERANCES</b> .X = ±0.05    ANGLES: ±0.5° .XX = ±0.01 .XXX = ±0.005			
MATERIAL:			DISCRIPTION: TEAMERLUPA2 Fall 2023
FINISH:			PART NO. LUPA-A1100 and -A1200
DRAWN	NAME	DATE	0.2
CKB	CKB	04.21.2025	
CHK'D			REVISION
SCALE:1:20		SHEET 1 OF 1	
DO NOT SCALE DRAWING			