

환상의 나라 미자월드

GYRO SWING

캐드를 사랑하는 사람들의 모임

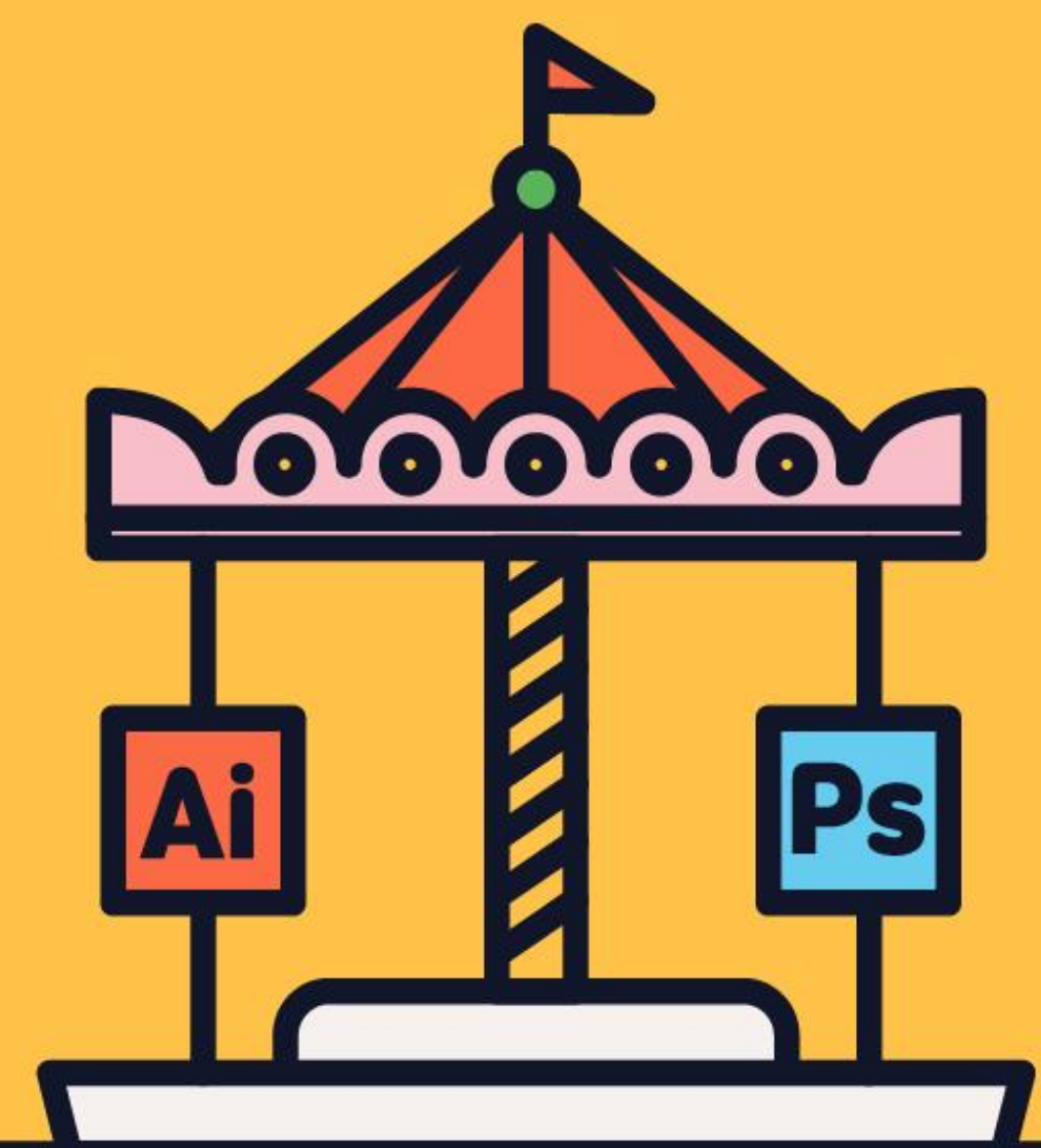
미래자동차공학과
2021096253 권석진
2023066008 양승연



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- 2 제작과정 및 참고자료
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- 4 아쉬웠던 점 및 어려웠던 점



TEAM PROJECT



권석진

-자료수집

-자이로스윙 틀 Design

-Assembly Design

-DMU kinematics

양승연

-자료수집

-자이로스윙 본체 Design

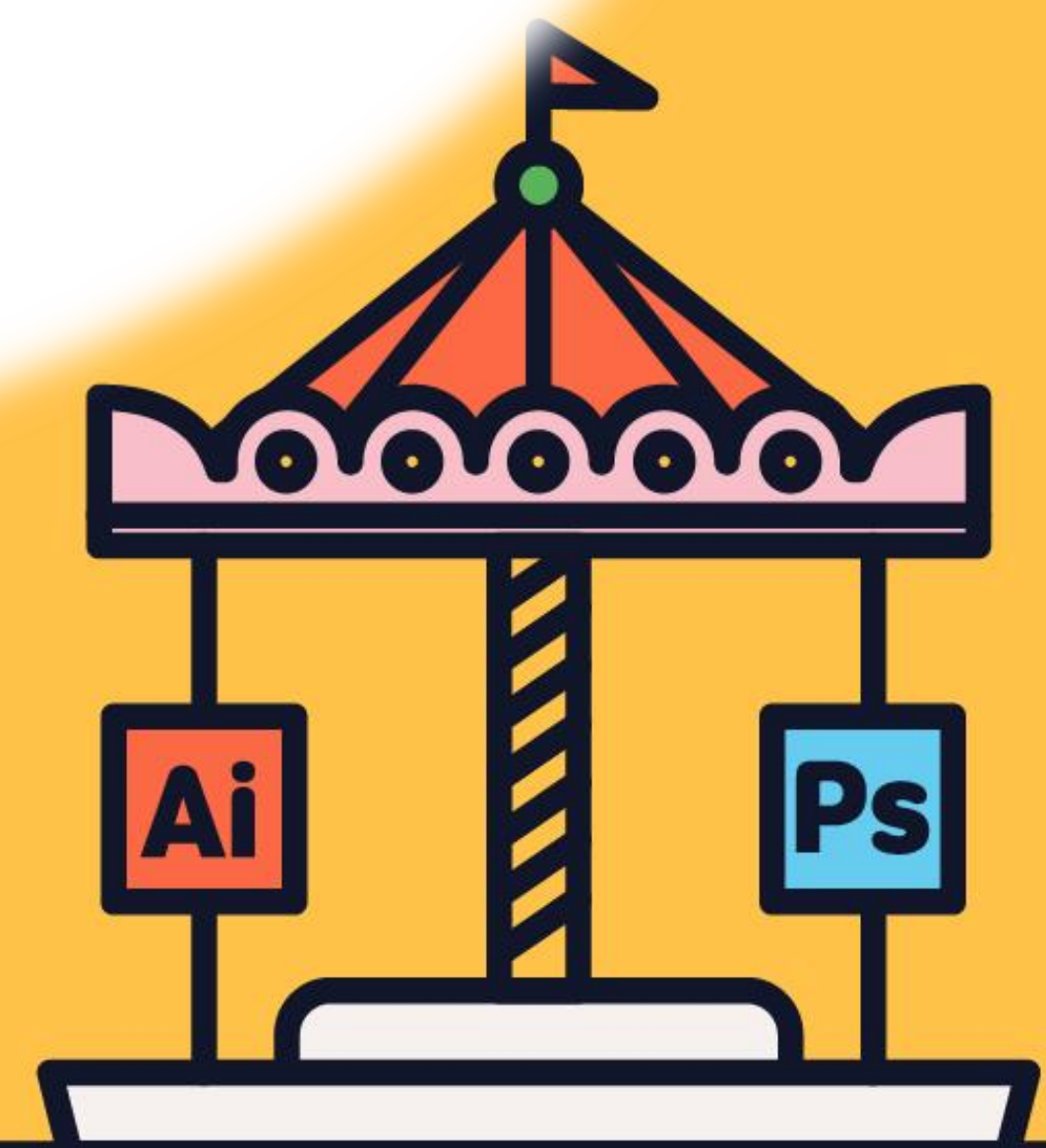
-Assembly Design

-PPT Design

ON AIR



PPT





우리나라 인기 테마파크 - 환상의 나라 : 롯데월드



자이로스윙





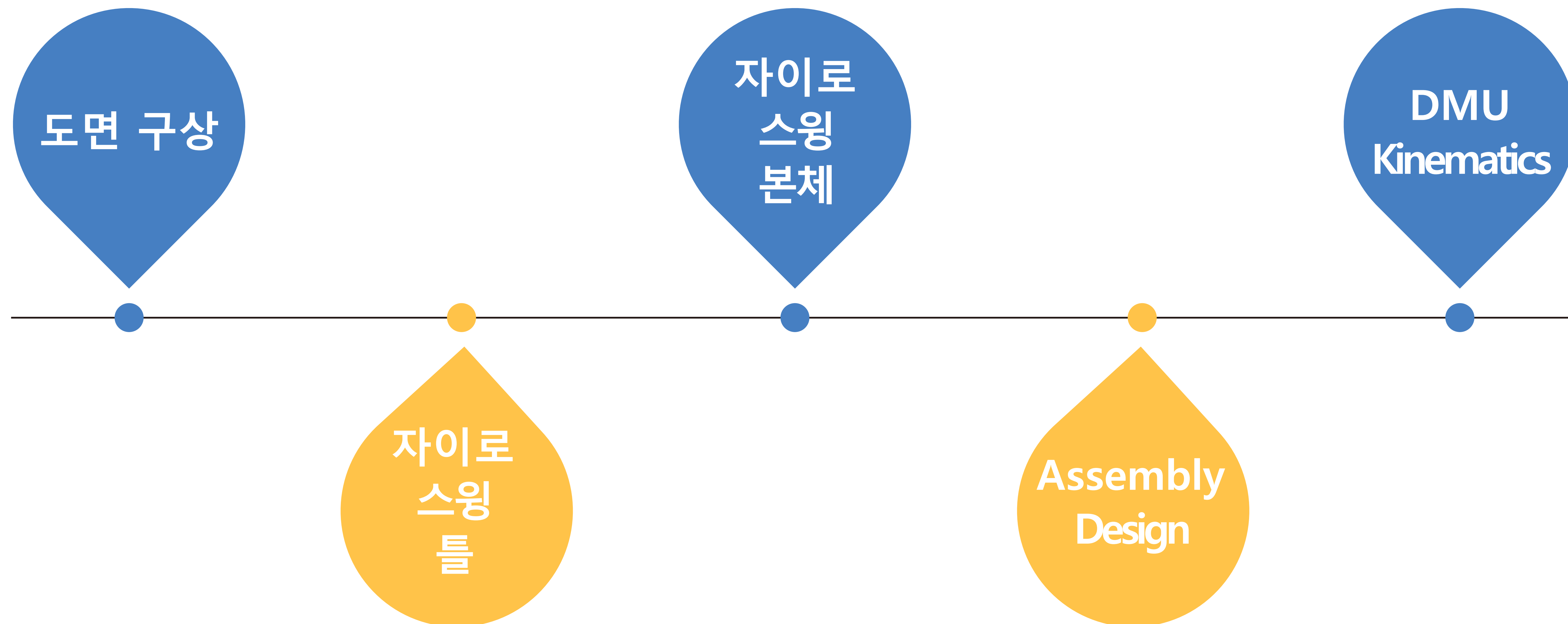
자이로스윙



좌우로 진자운동 반복
프리스비 놀이기구

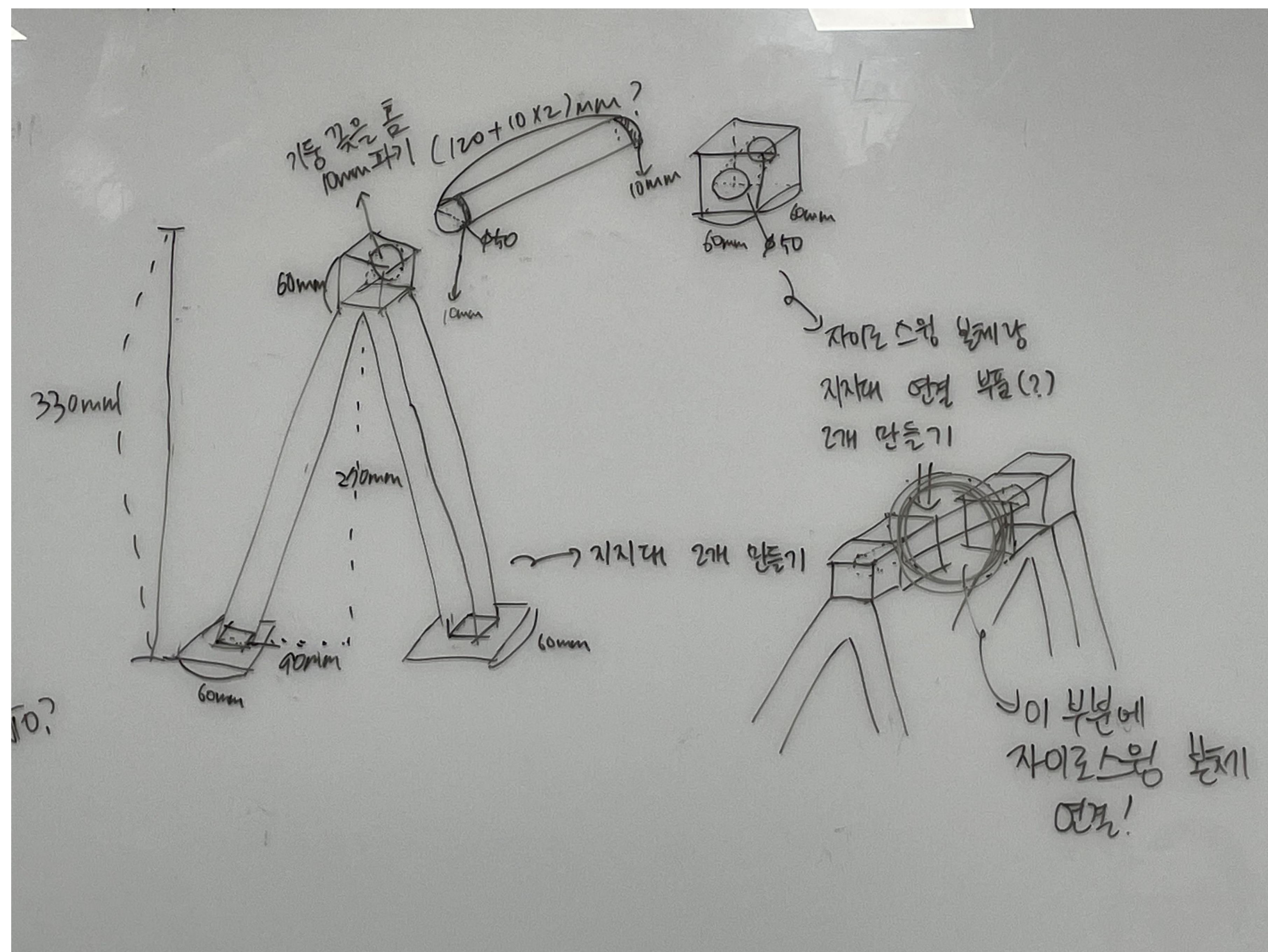
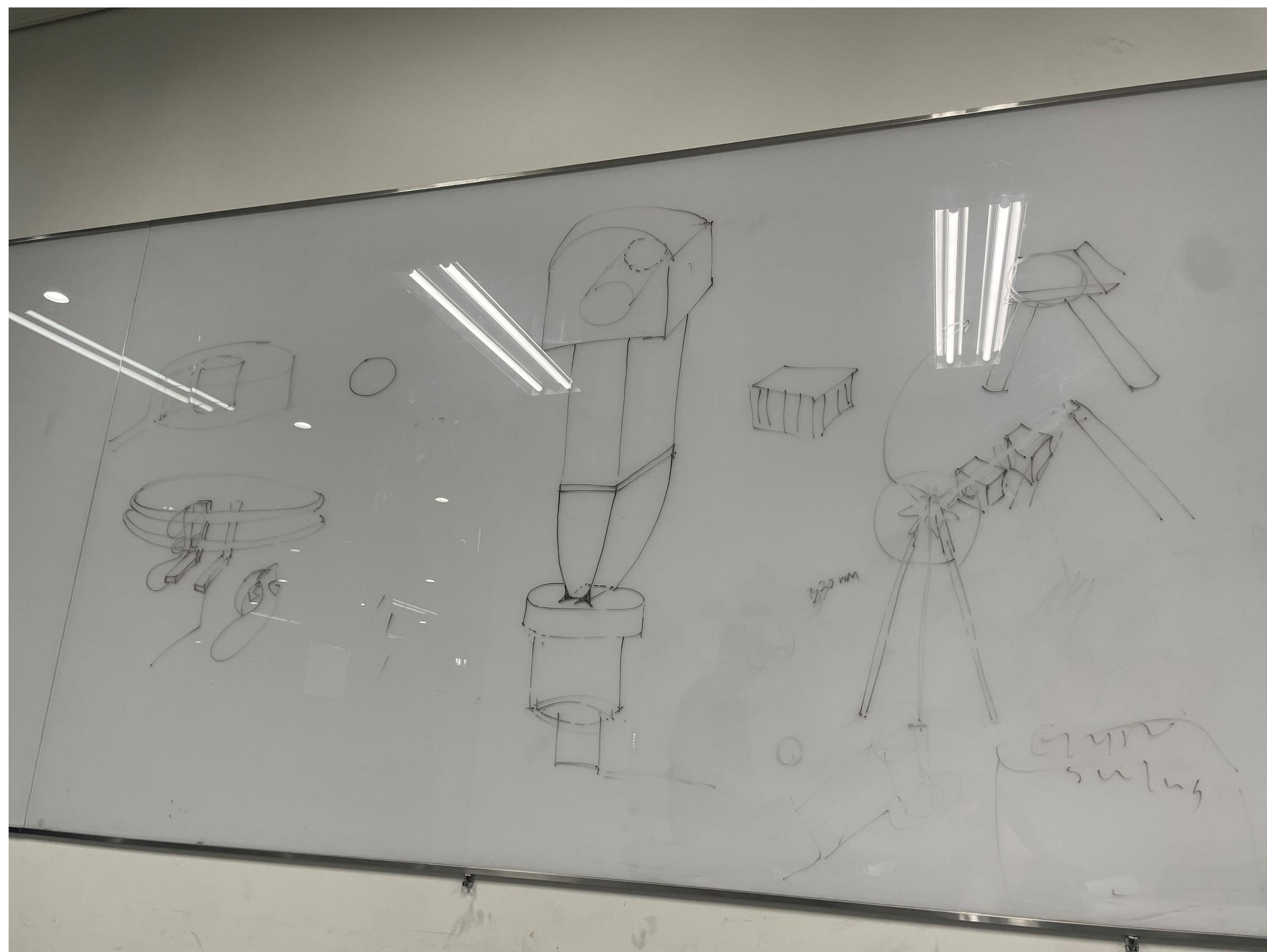


미자월드 자이로스윙 Making Process





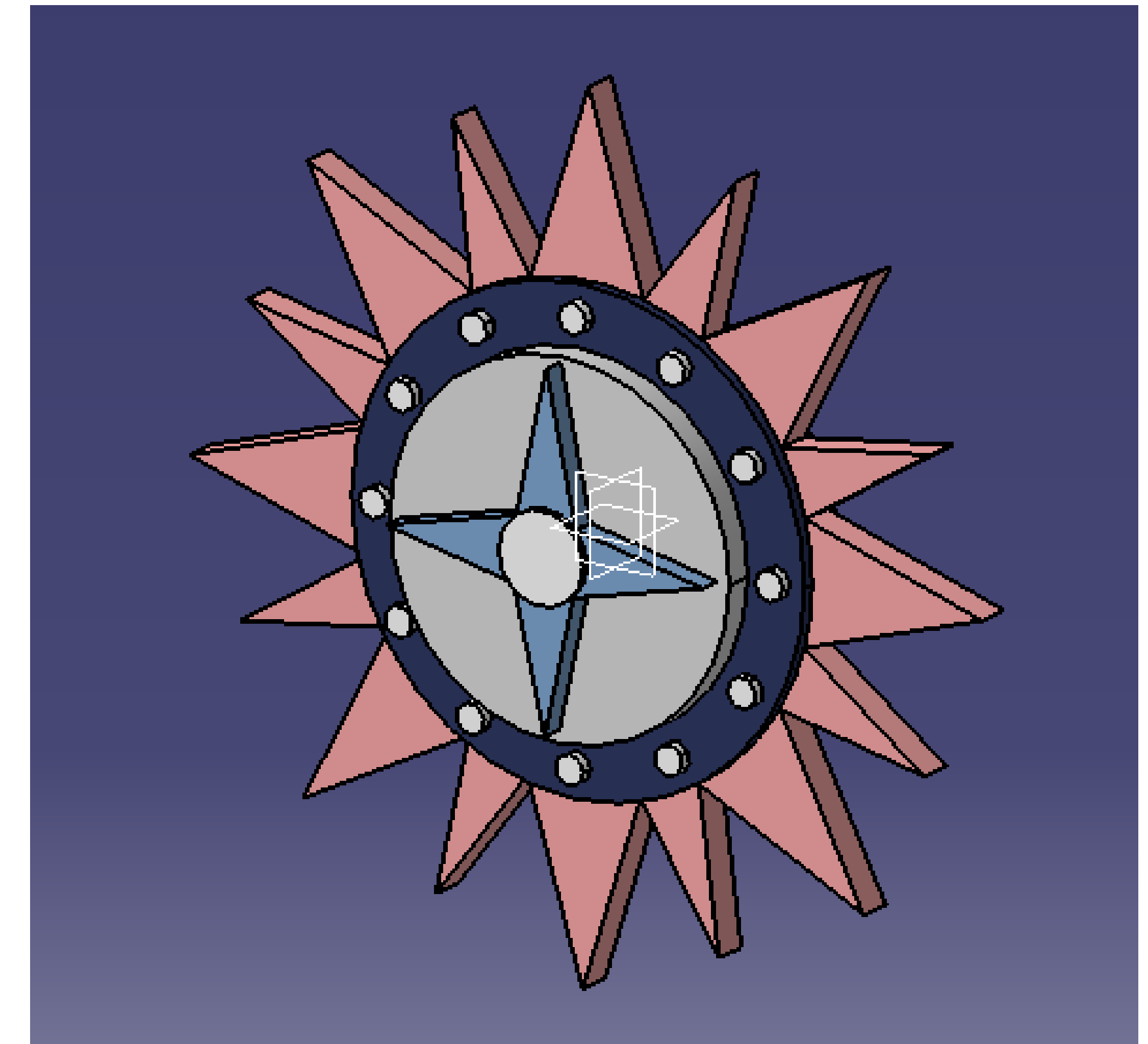
도면 구상



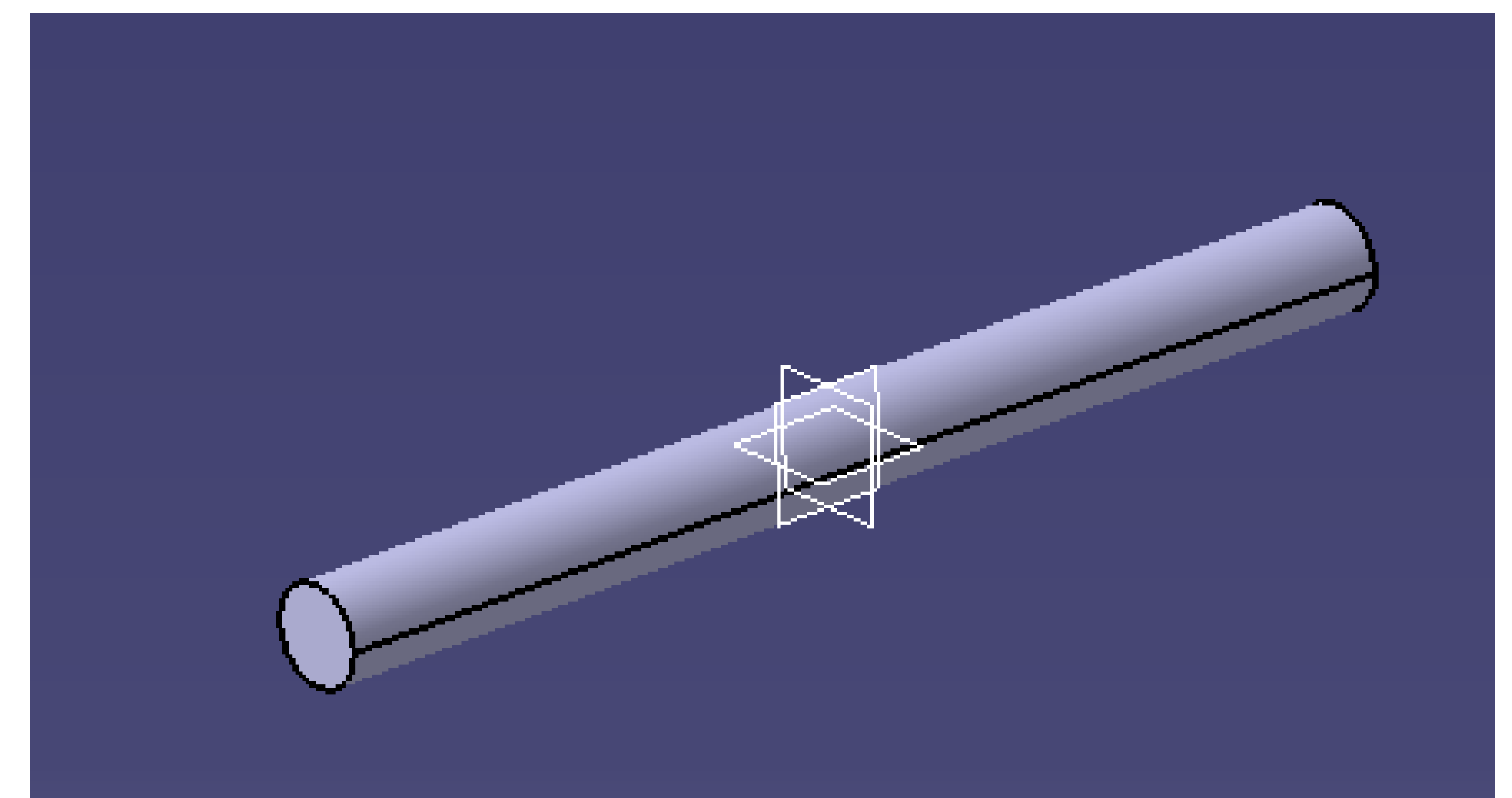
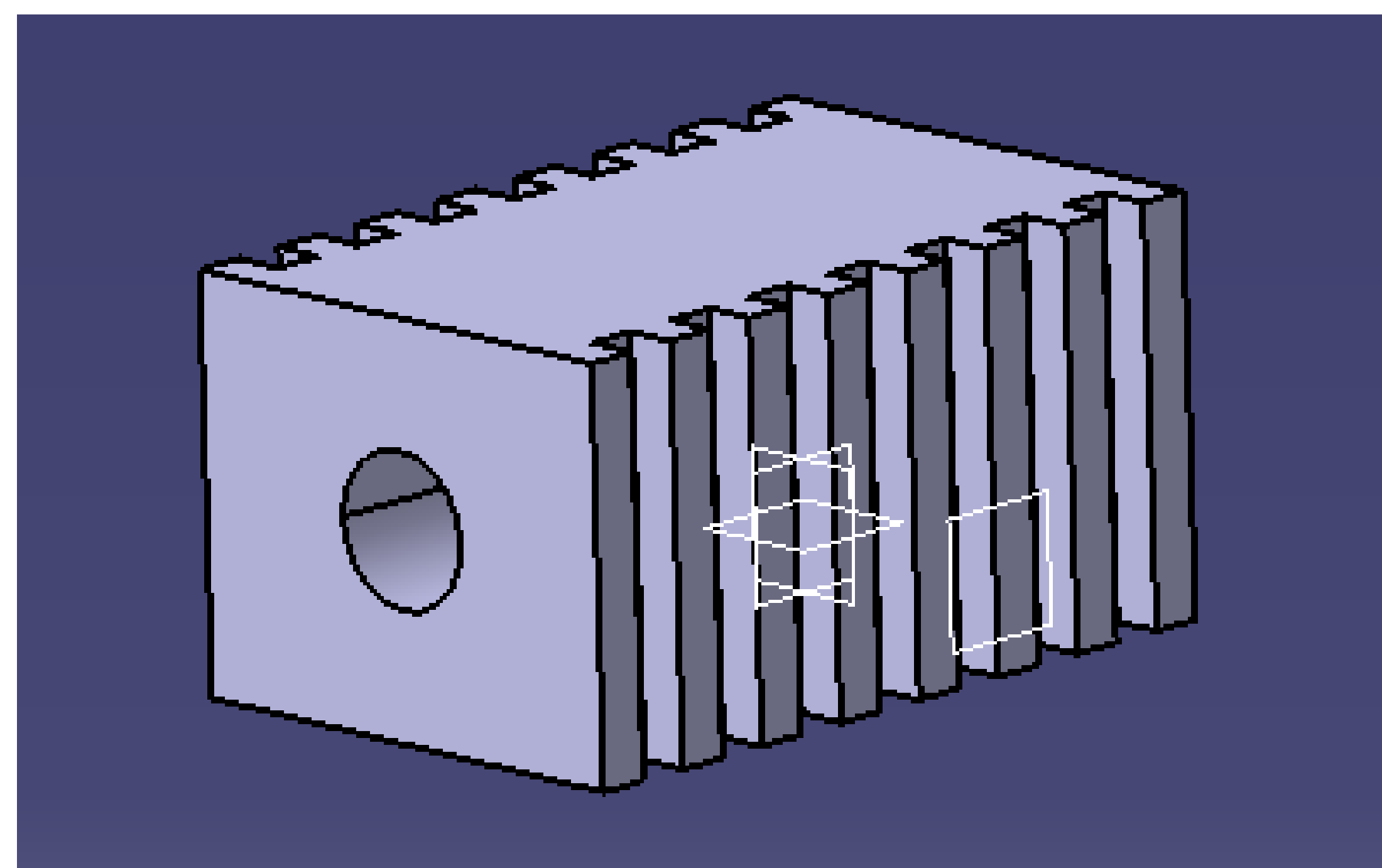


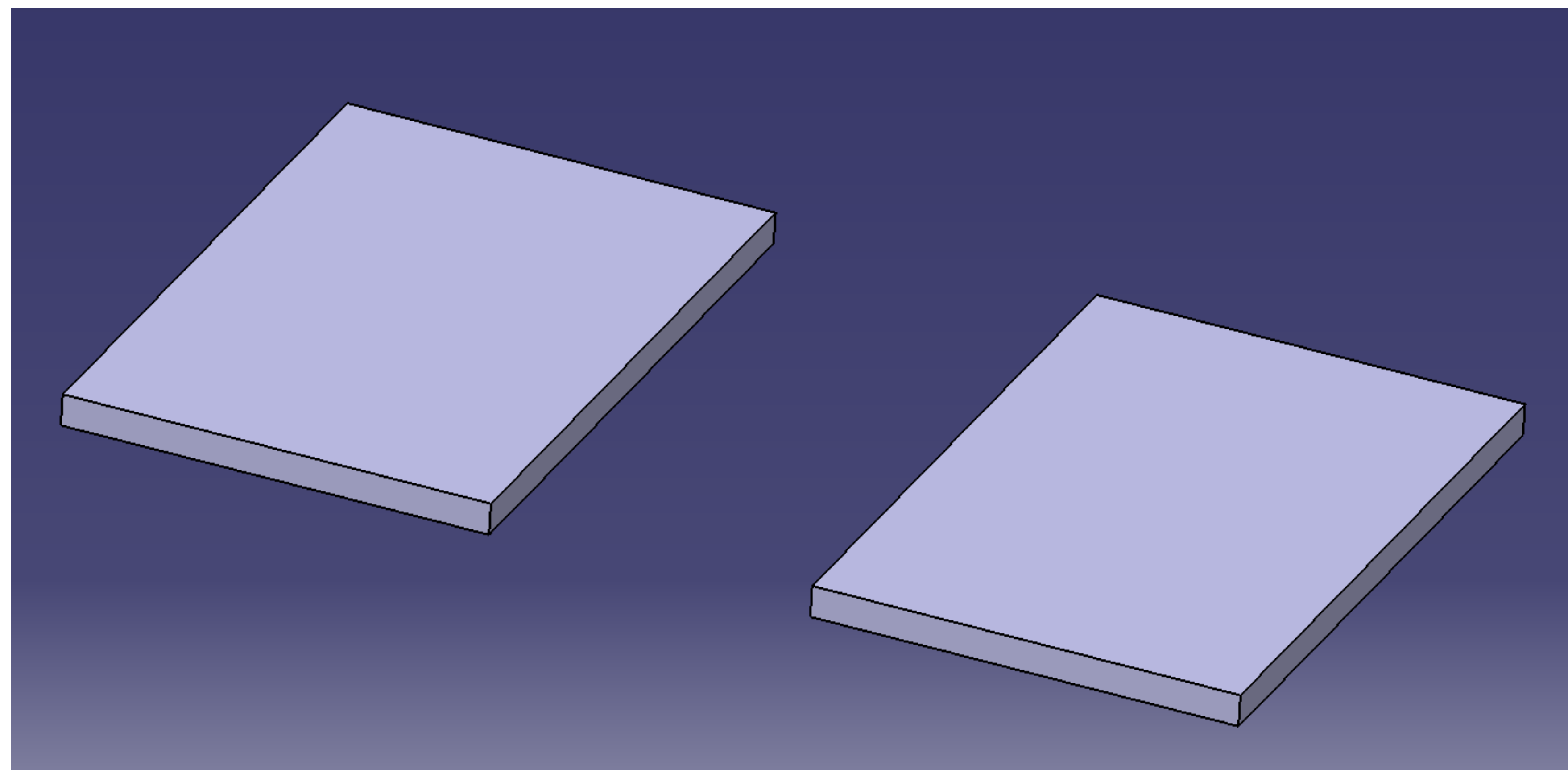
Connection

자이로스윙
지지대 기둥

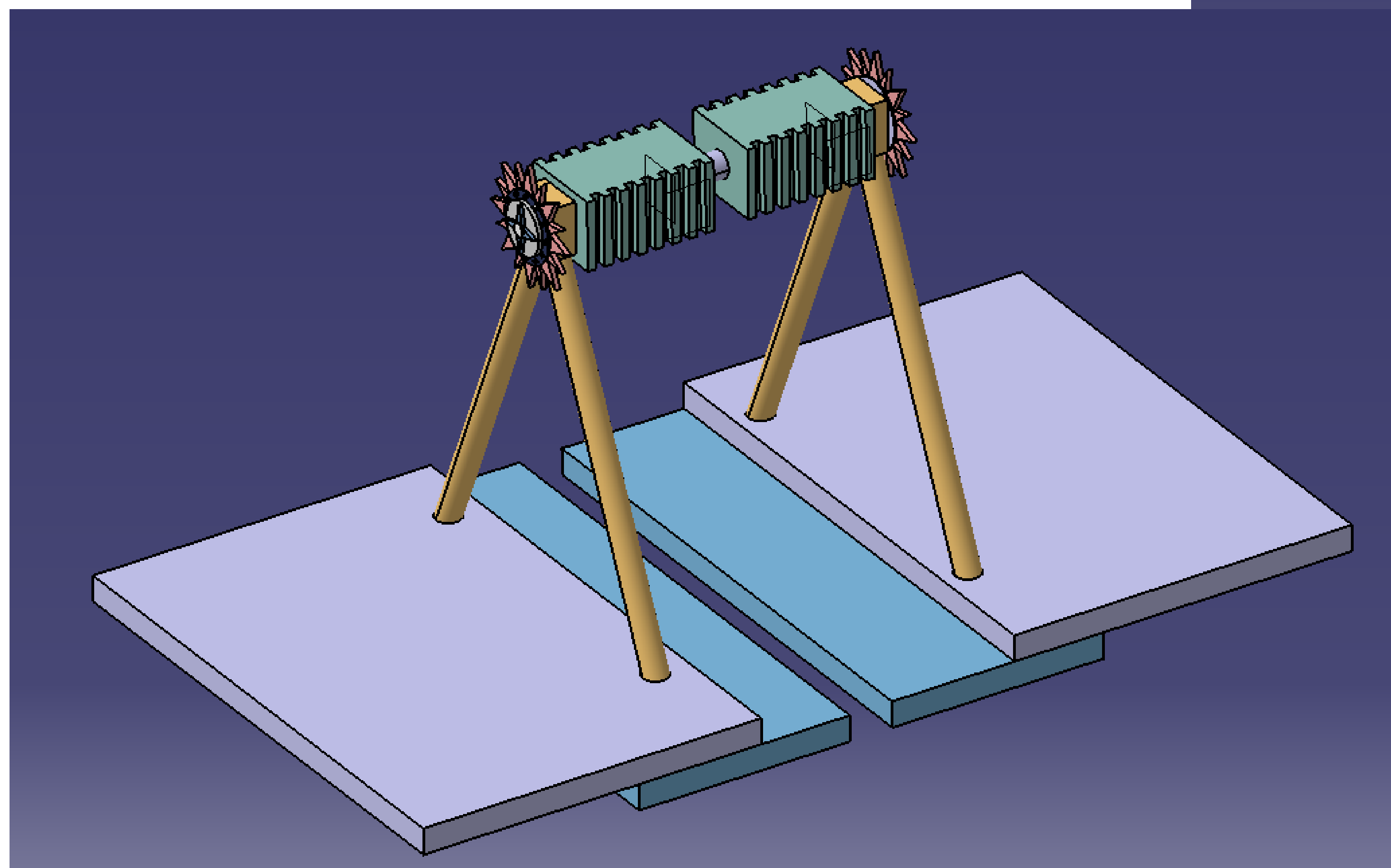
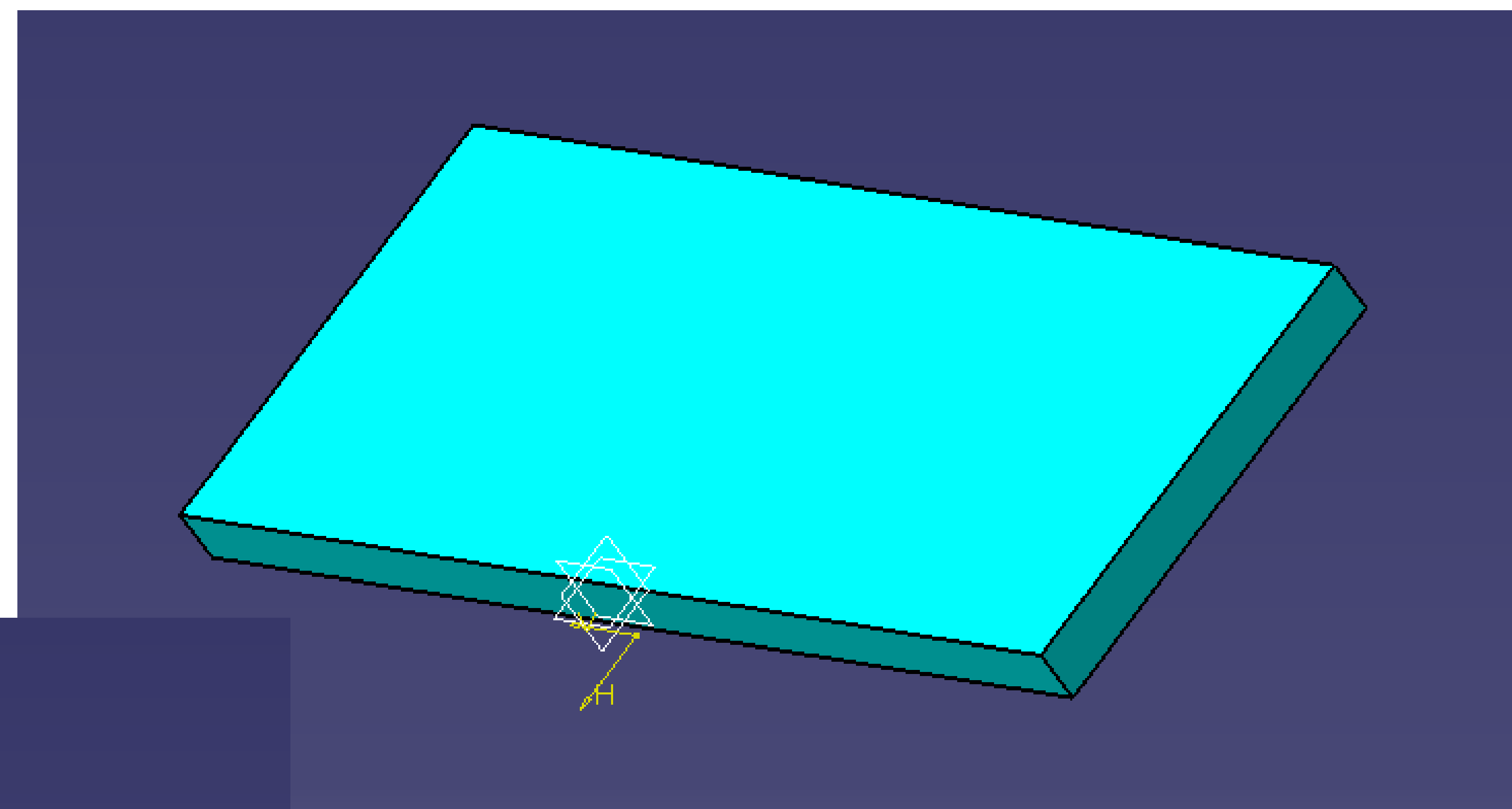


Connection

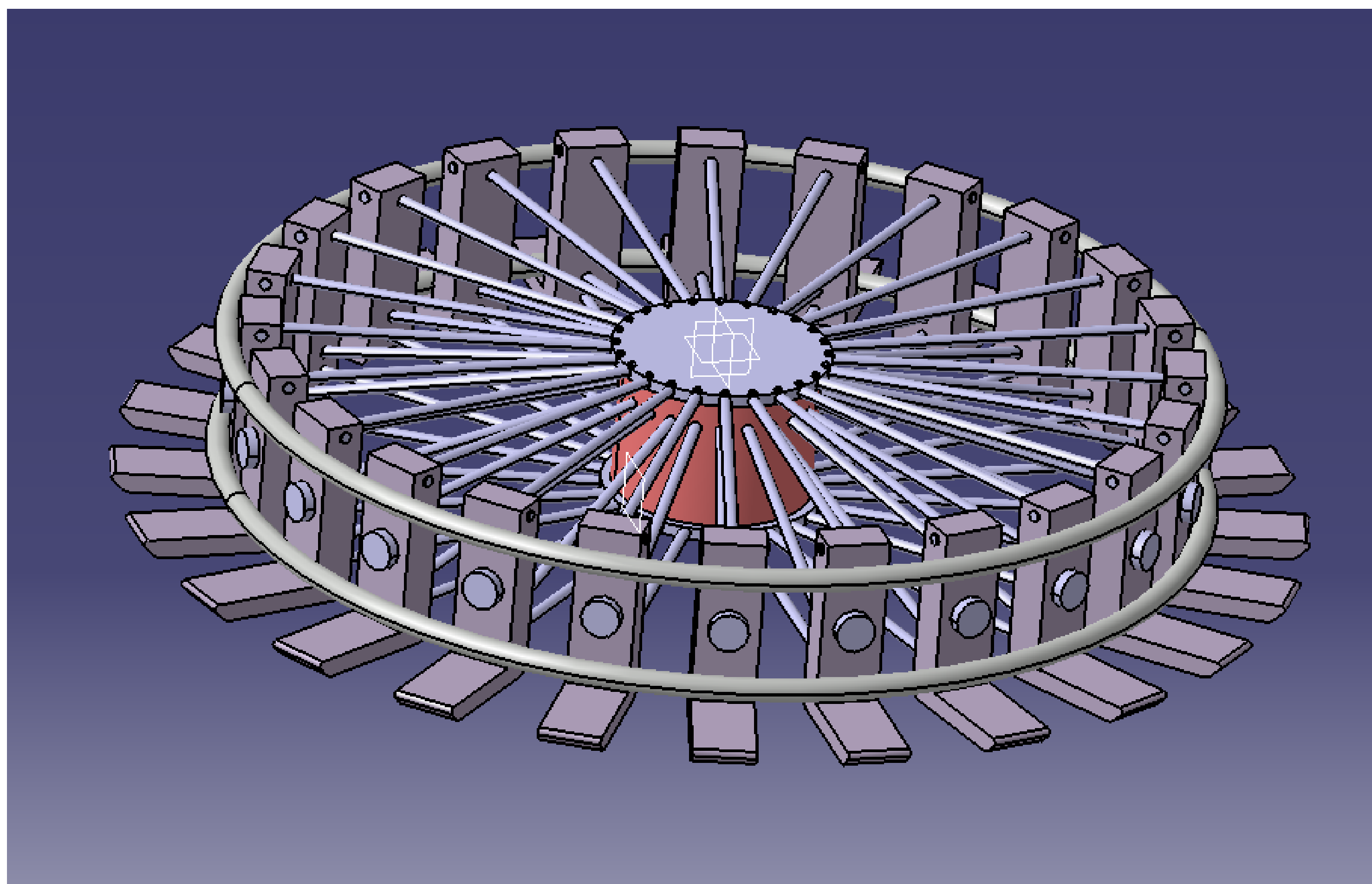




Ground 1 & 2

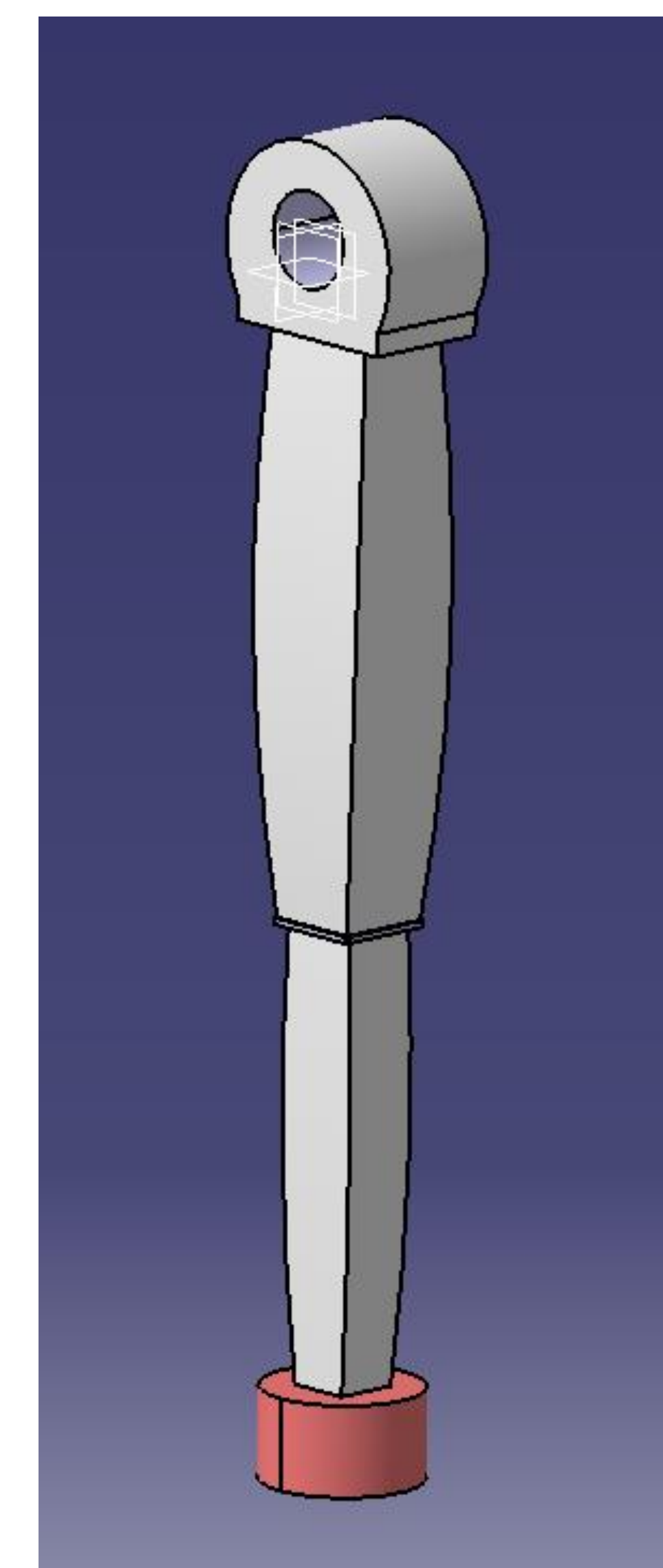
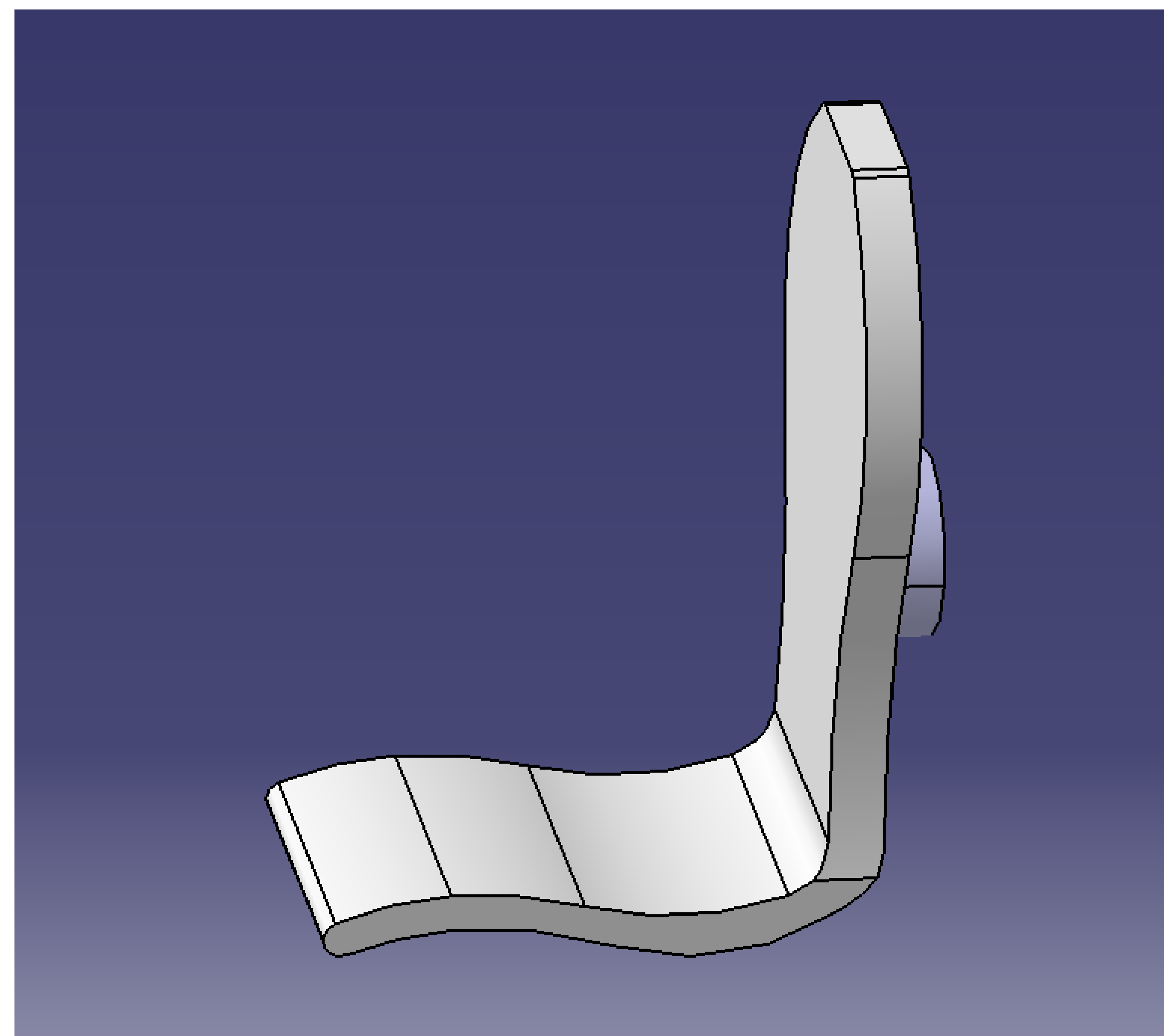
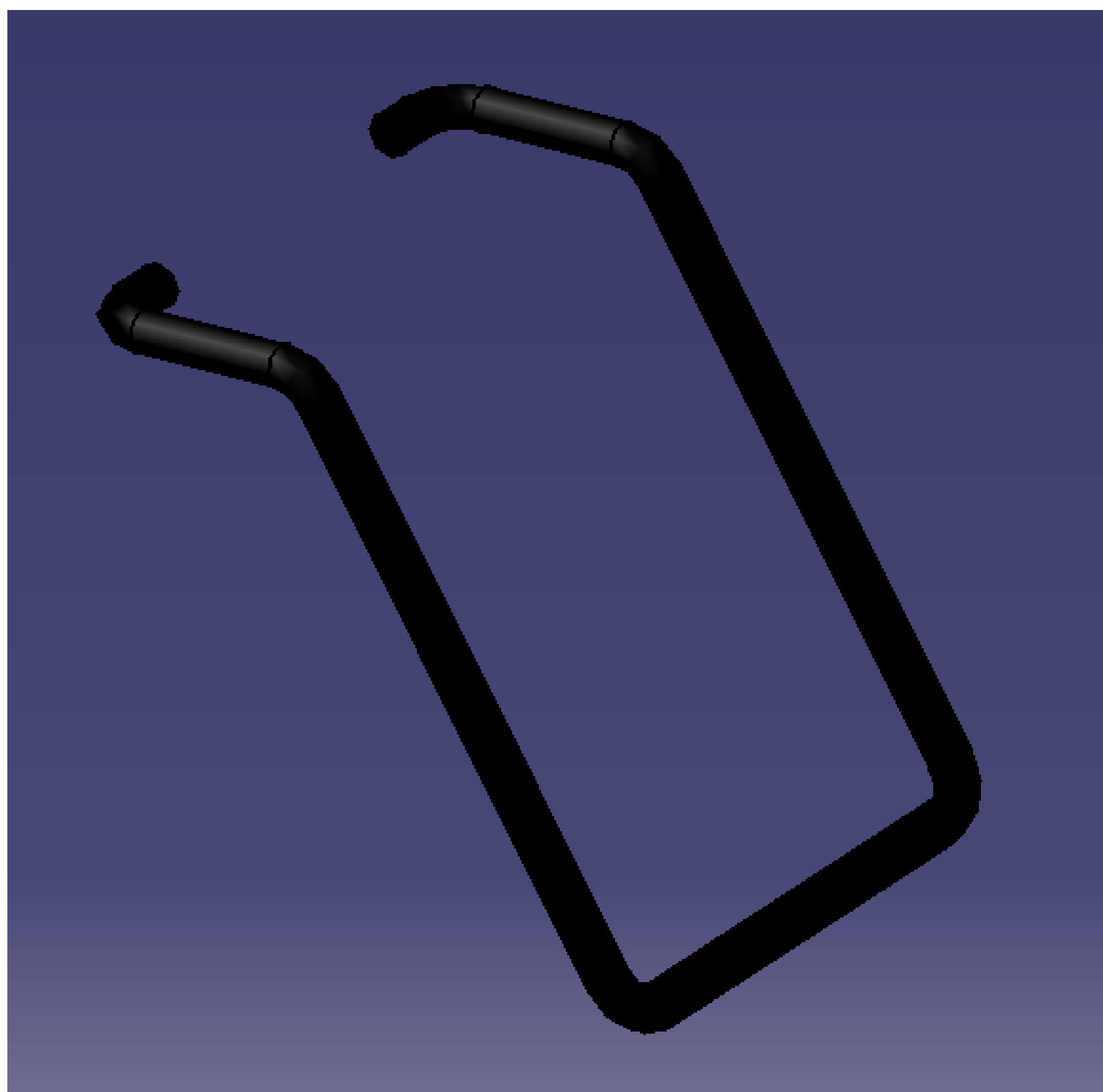


자이로스윙 틀 합체



자이로스윙 밑 원판 + 의자 보조대

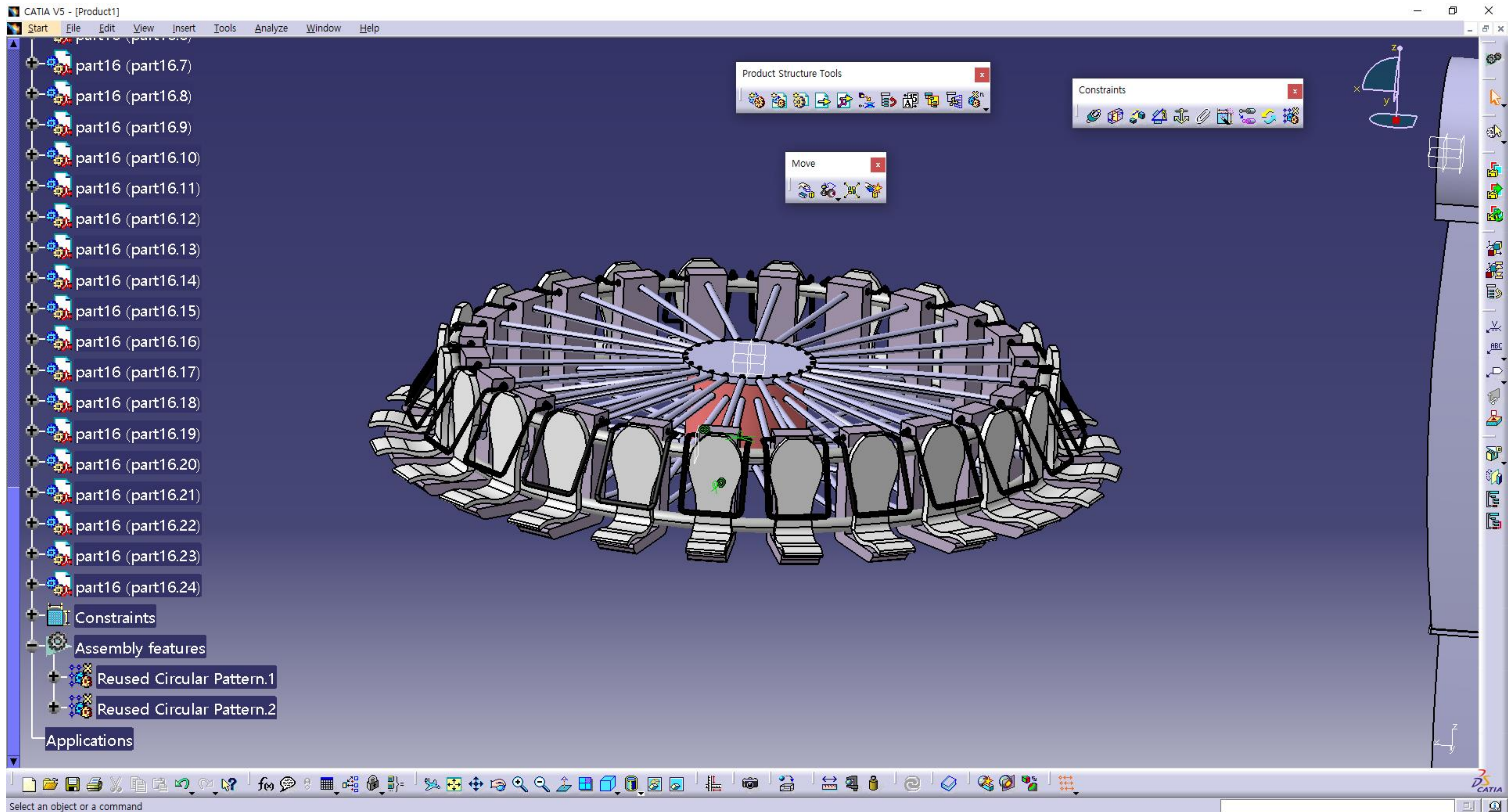
안전바 & 의자



본체 기둥

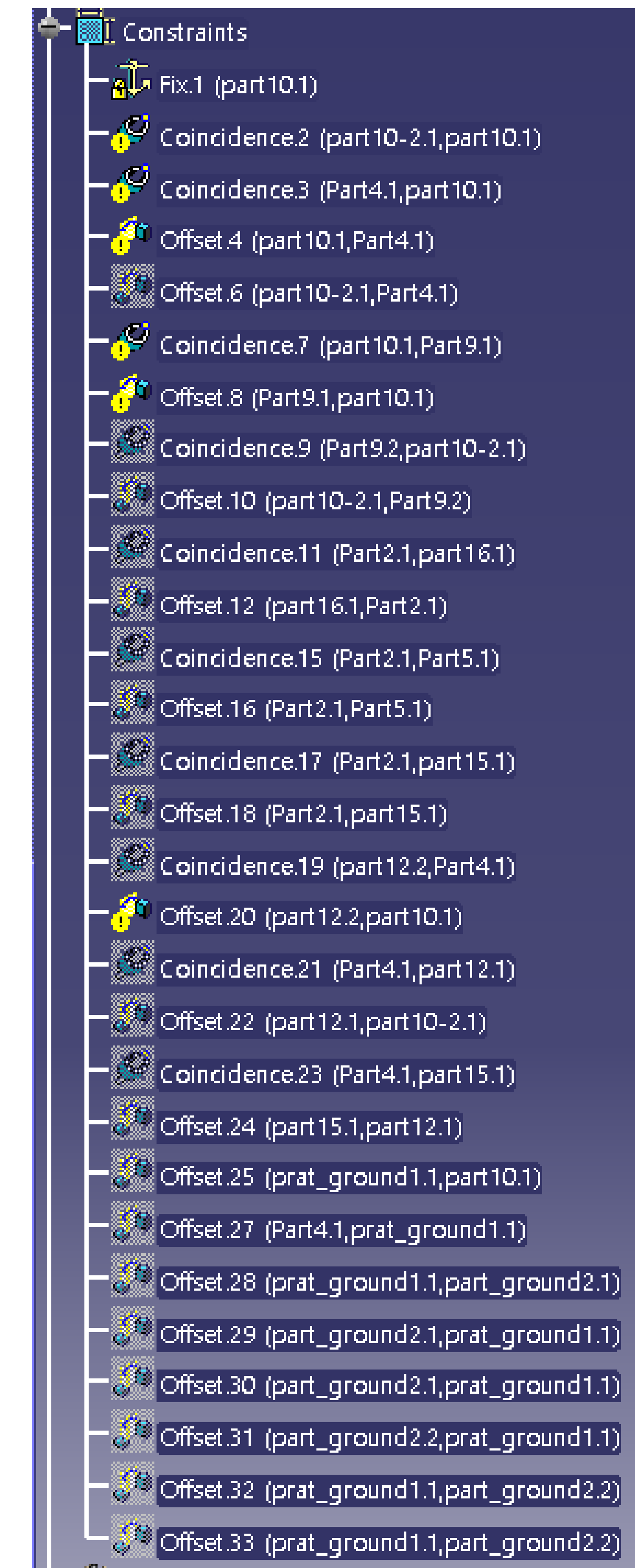


Assembly : 자이로스윙 틀과 안전바, 의자 합체



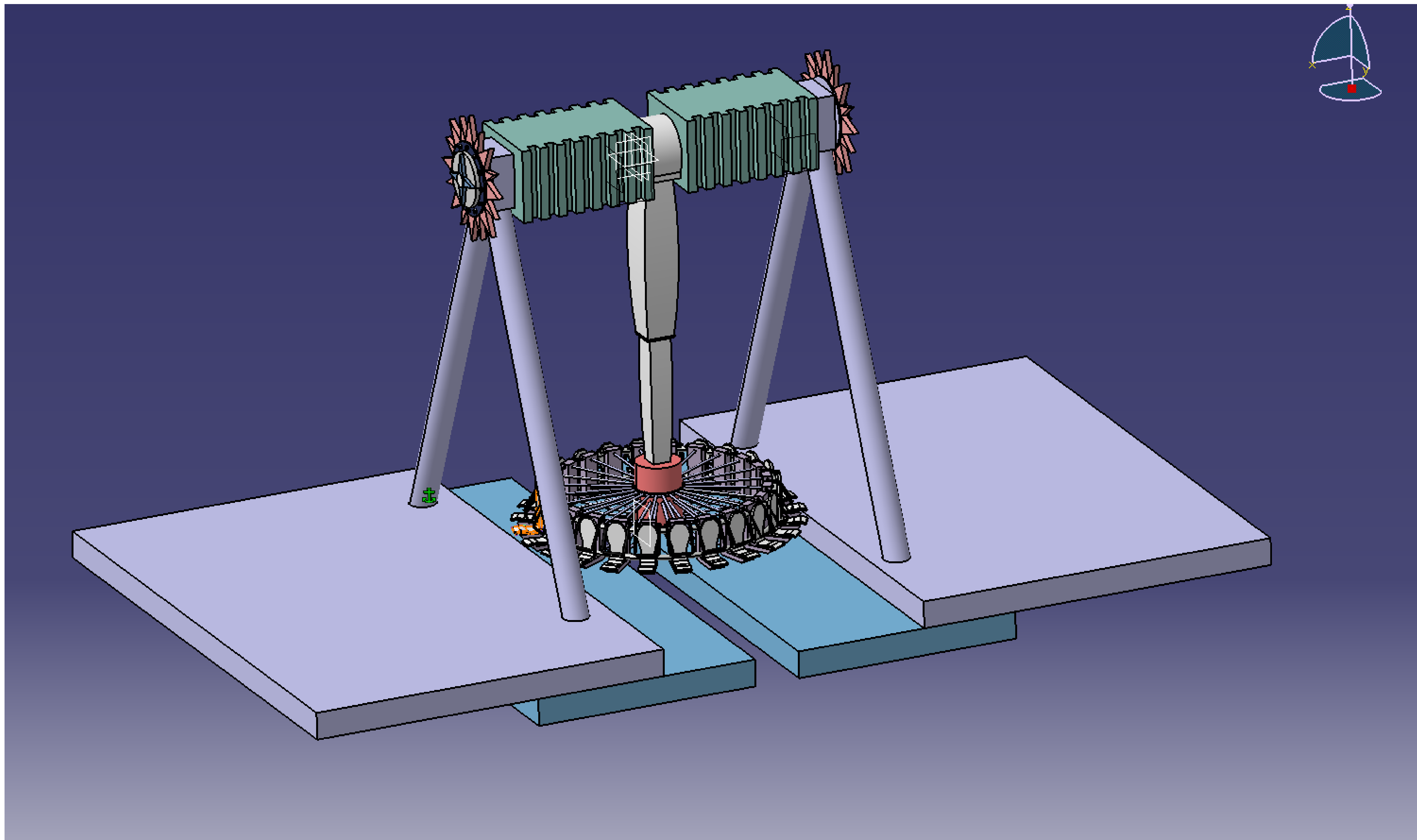


Final Assembly : 자이로스윙 틀과 본체 합체



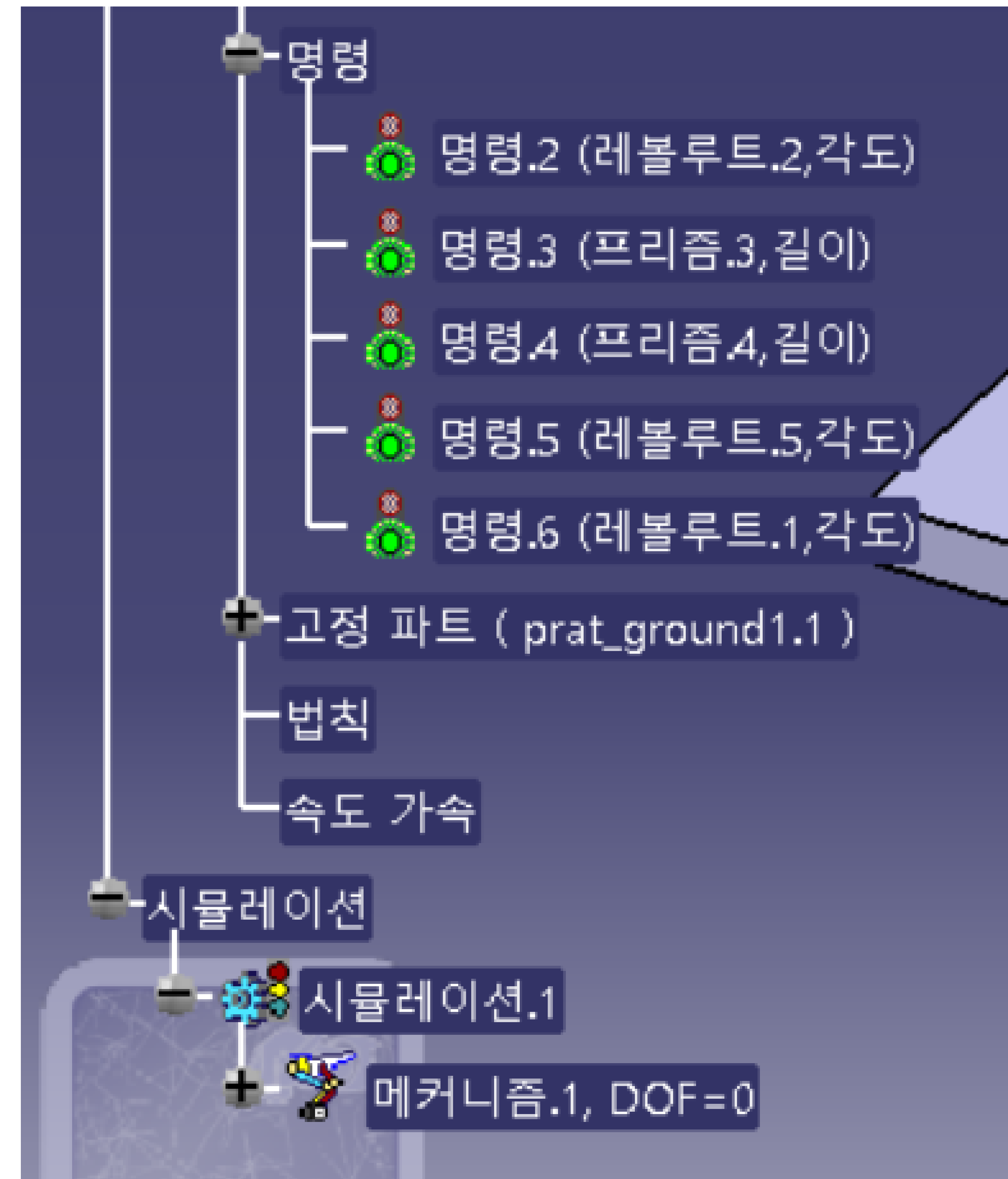


Final Assembly : 자이로스윙 틀과 본체 합체



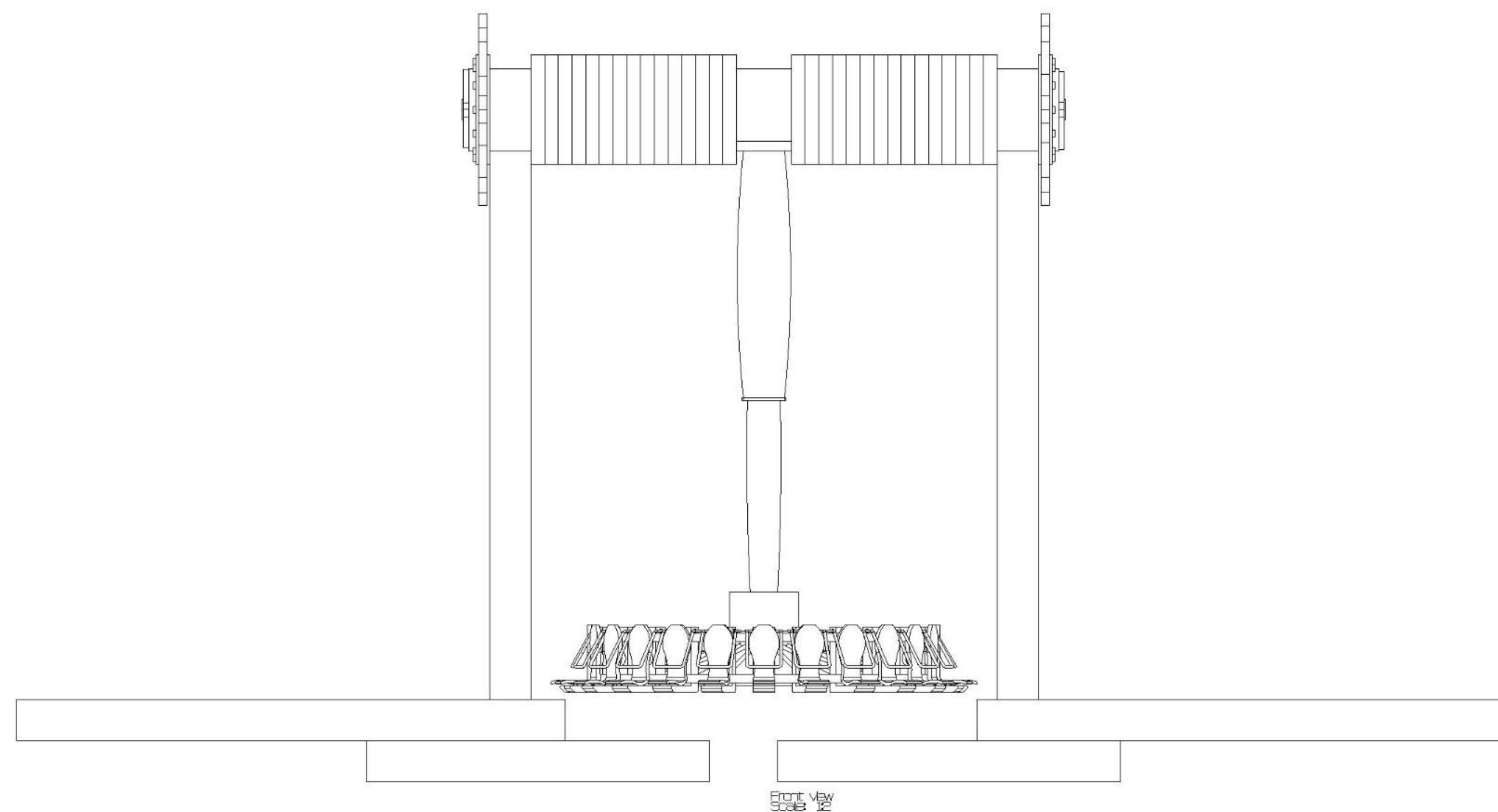
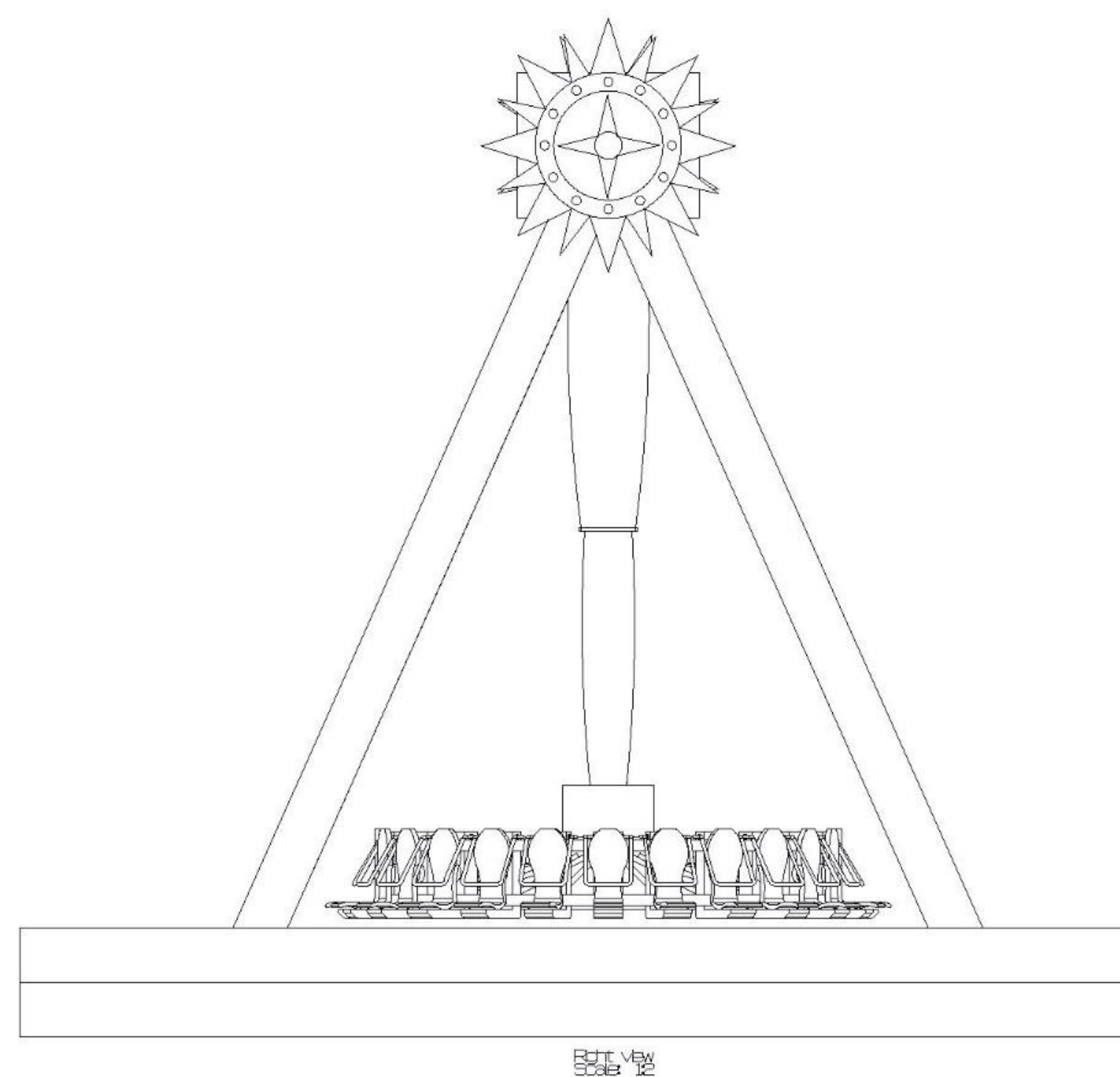
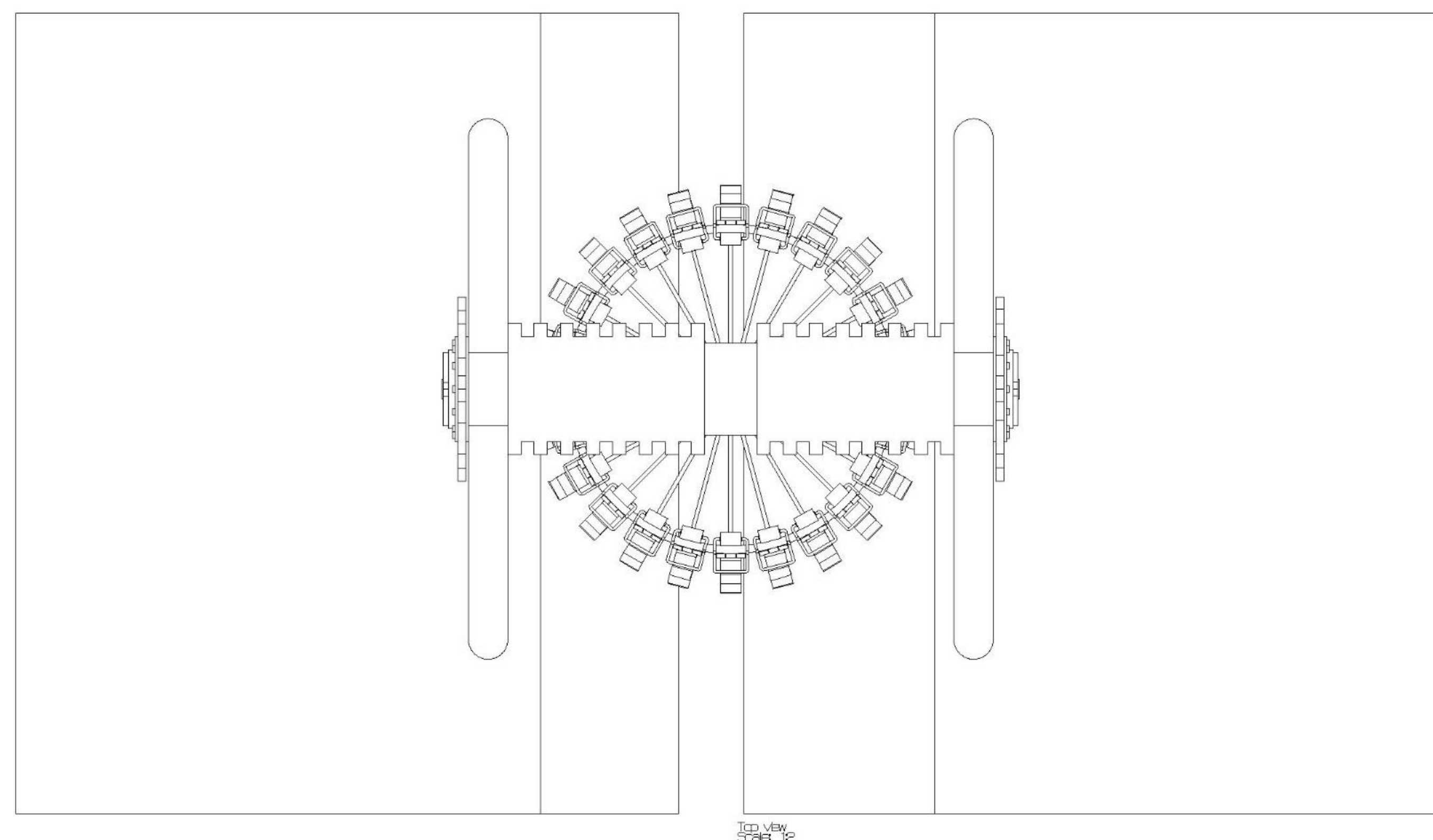
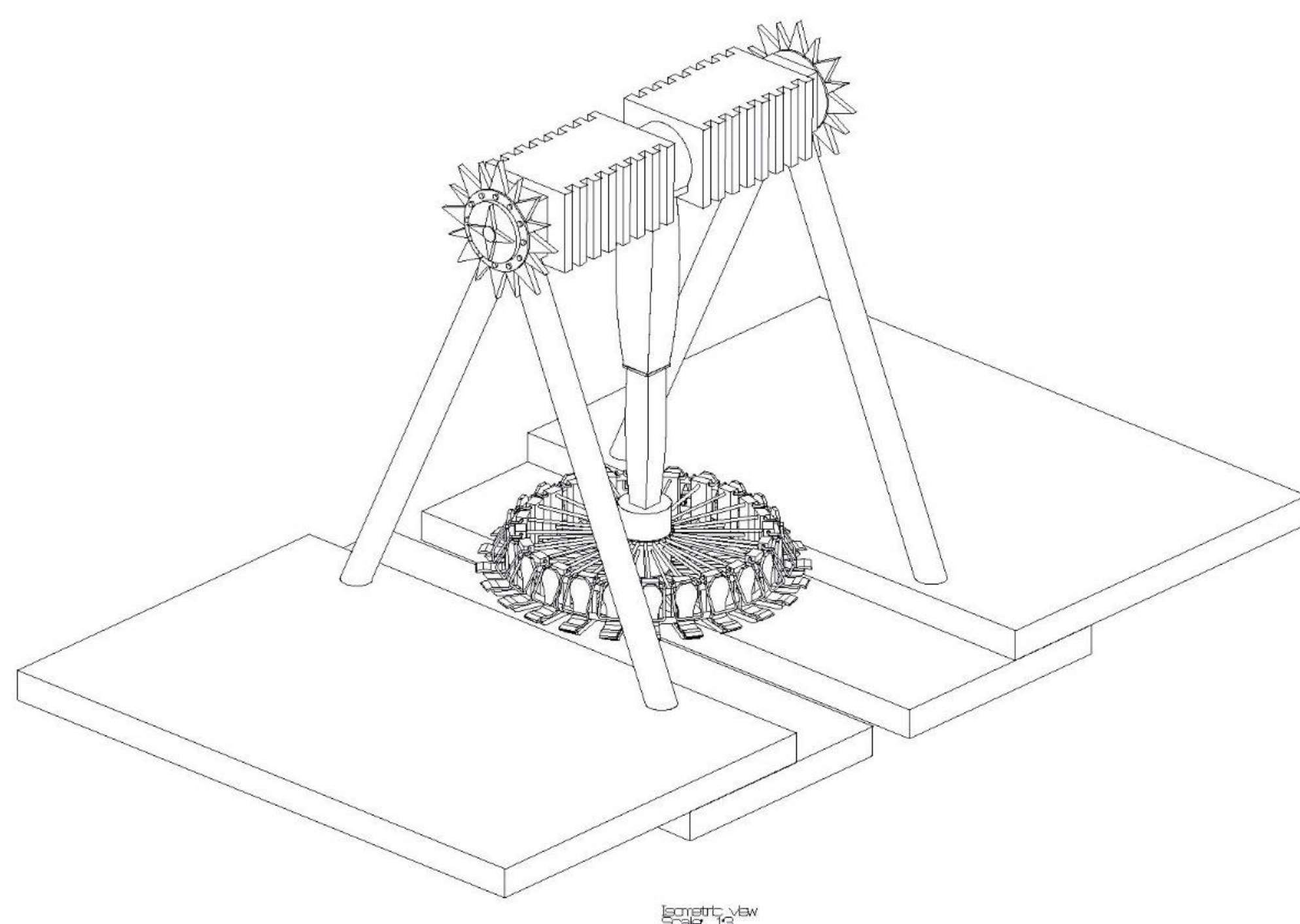


DMU kinematics





Drafting





<https://youtu.be/4ggQp6QdjZg?si=KFBhuRHVMBpn4HHv>



1. 자이로스윙 바닥 제작 과정에서 라인을 그어서 GSD의 sweep 기능을 이용하여 surface를 만들 계획이었으나 자꾸 오류창이 떠서 GSD 사용을 하지 못했다.
2. Assembly 과정에서 over constrained 오류창이 계속 떠서 explode – assembly 과정을 여러 번 거쳤다.
3. DMU kinematics 과정에서 joint를 부여하는데 DOF가 정의되지 않아 원인을 찾는데 오래걸렸다.

감사합니다

-캐.사.모.-

2024
CAD

