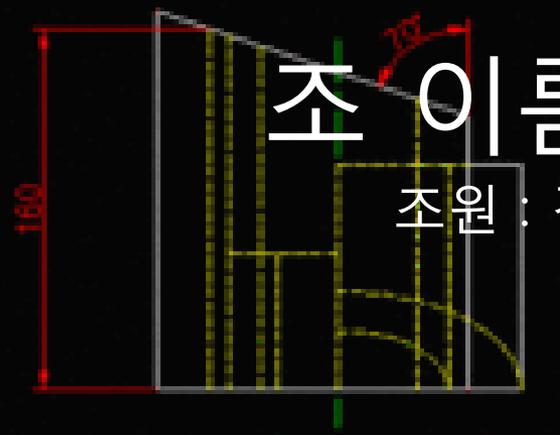


CAD PROJECT



TOP SCALE 1/3



FRONT SCALE 1/3



RIGHT SCALE 1/3

조 이름 : 케얼간이

조원 : 김인한, 신재성, 김종한

목차

- -조 이름소개
- -참고모델소개
- -선정이유
- -제작계획
- -CAD PROJECT 소개
- -동영상
- -문제점

목차

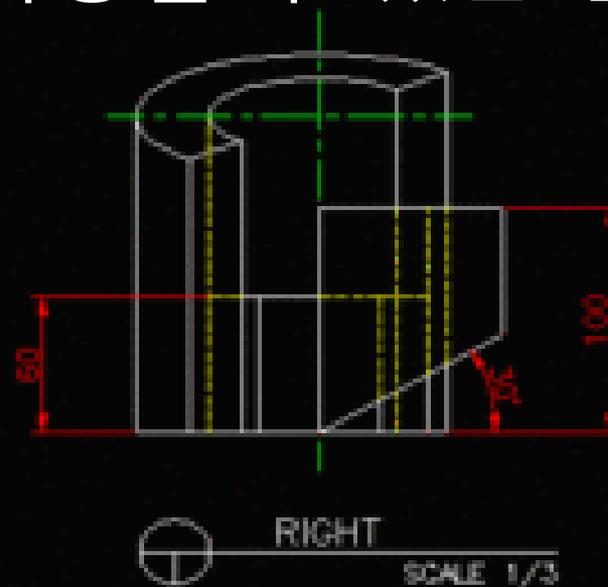


왜 “케 얼간이”인가?

- 영화 세 얼간이에서 영감을 받은 이름으로 세 명의 공학생들의 '진실된 공부란 무엇인가?'라는 내용을 본받아 진실된 카드프로젝트를 구현하기 위해 모인 세 학생을 의미합니다.



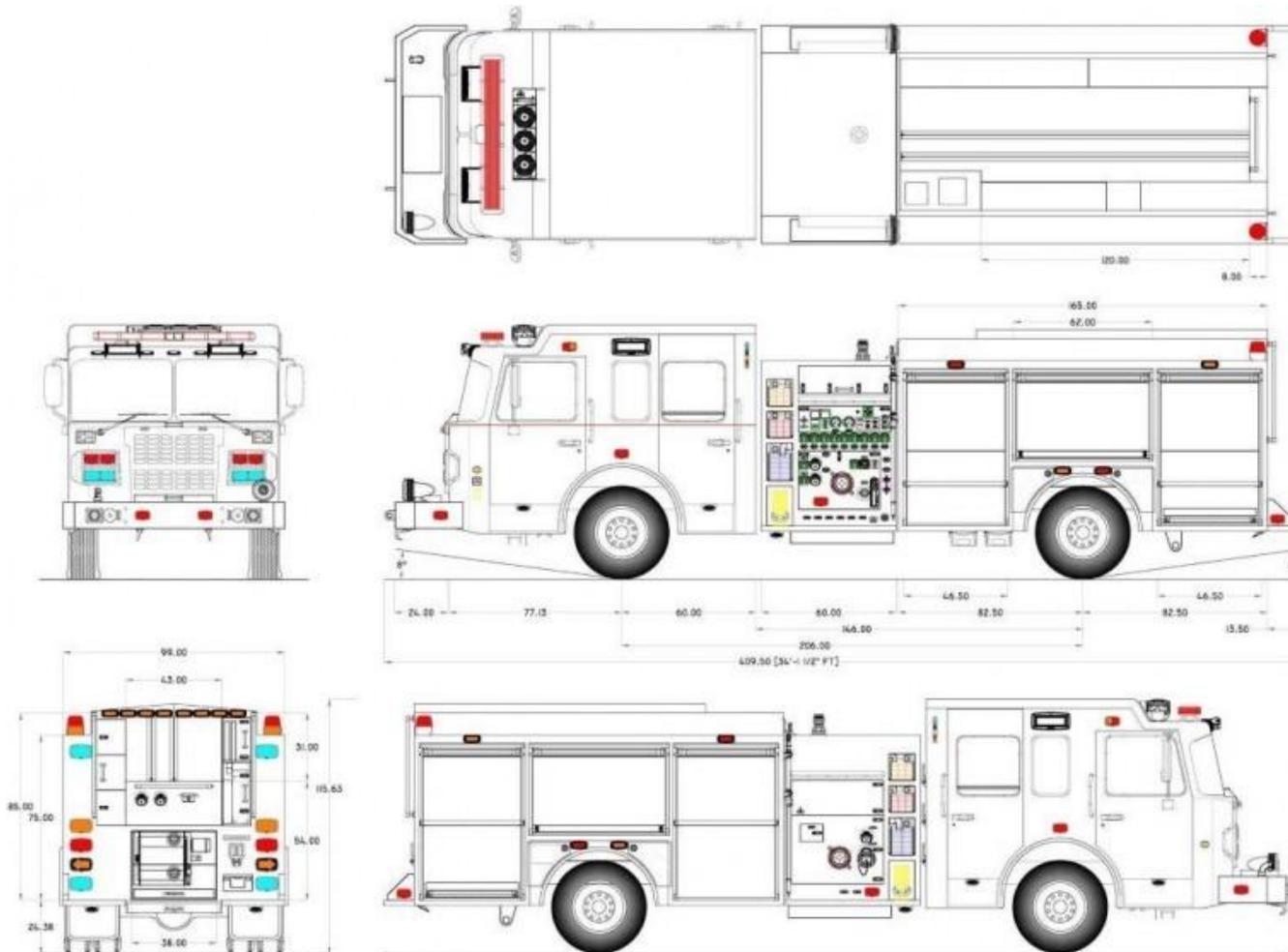
- 크레인은 크레인자체로도 다양한 메커니즘을 구현할 수 있고, 크레인을 만드는 과정에서 우리가 배워온 기능들(파트디자인, 어셈블리, 키네마틱스)을 사용할 수 있는 점에서 적절하다고 판단.



참고모델



치수참고모델



치수참고모델

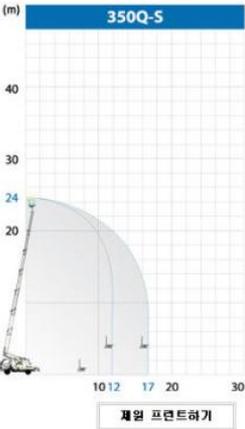
1385712646.jpg - Windows 사진 및 팩스 뷰어

○ 제품설명



▶ 불 화우 흔들림 방지장치(기본사양)
▶ 무선리모콘(기본사양)
▶ 오일물러(기본사양)
▶ AC전원 인버터(선택사양)

○ 제품사양
Specification



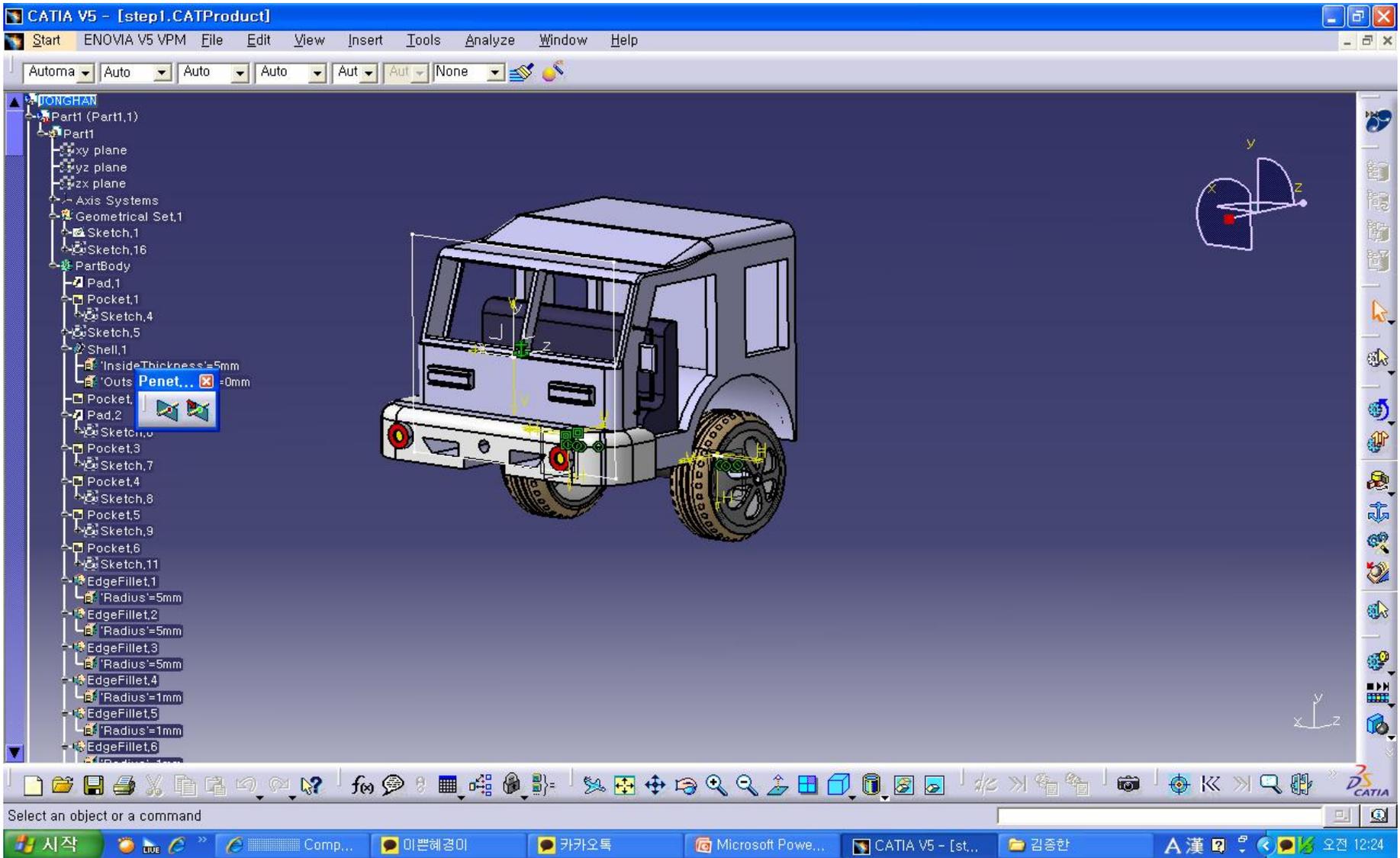
MODEL		단 위	350Q-S
작업높이	Work Height	m	24
플단수	Boom Steps		7단연동 7-step Interlocking
탑재차량	Mounted Vehicle	ton-S	HD 3.5
장비 크기	전고	mm	3,100
	전장	mm	5,600
	폭	mm	2,000
탑승합 크기	길이	mm	1,700(3,000)
	폭	mm	600(1,100)
아웃 트리거	높이	mm	1,150
	전방	mm	6,250
	후방	mm	6,250

시작 | Microsoft Po... | CATIA V5 - [...] | project | 2 Internet Ex... | 2 ALZip | 1385712646.jp... | 오후 3:38

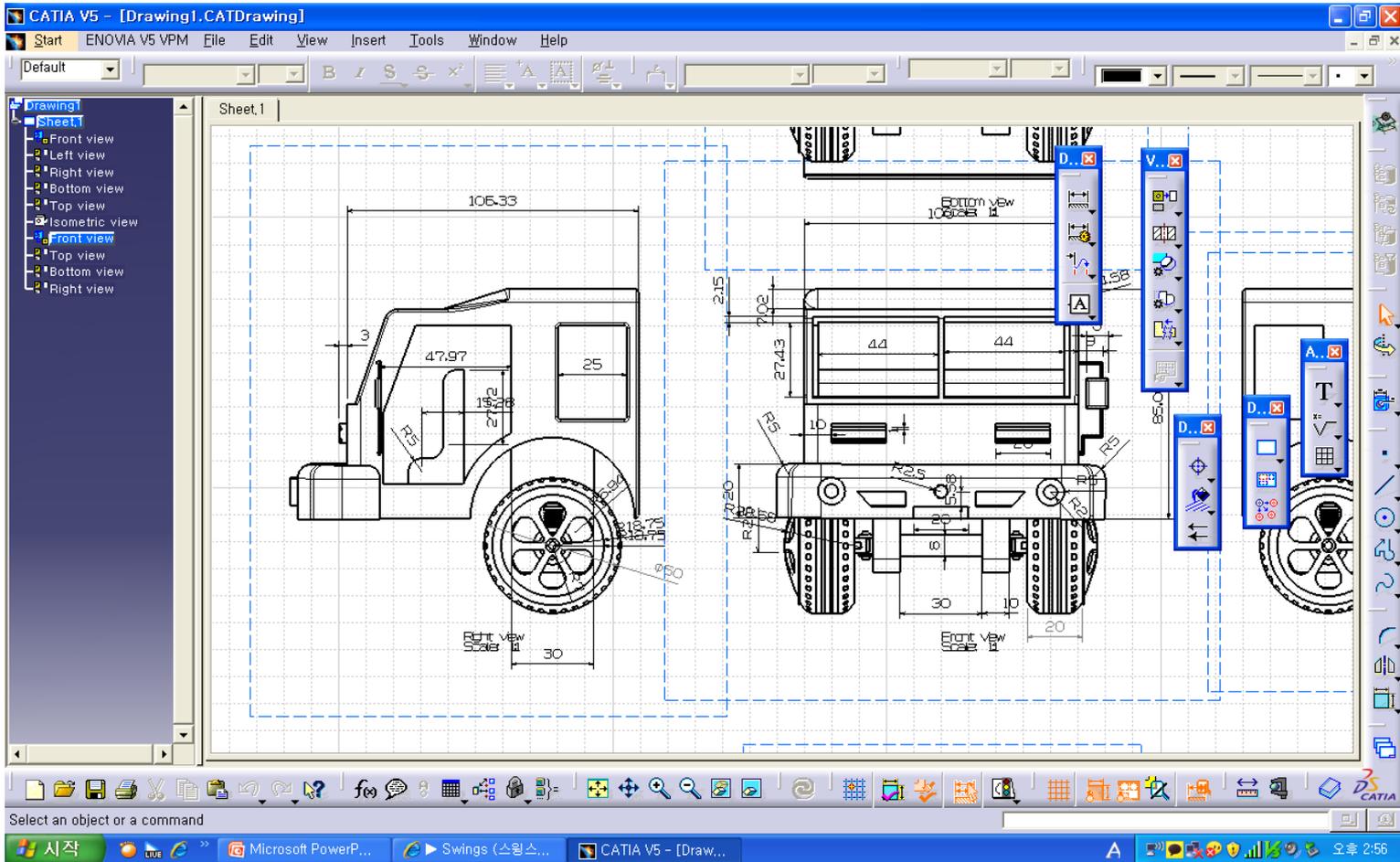
제작계획

- 1. 치수 참고모델을 통해 치수를 정한다.
- 2. 여러 가지 기능을 써가며 모델을 만든다.
- 3. assembly 와 DMU kinematics를 통해서 만든 세가지 모델을 합친다.
- 4. kinematic이 실행 되는지 실행해본다
- 5. 문제점을 해결한다.

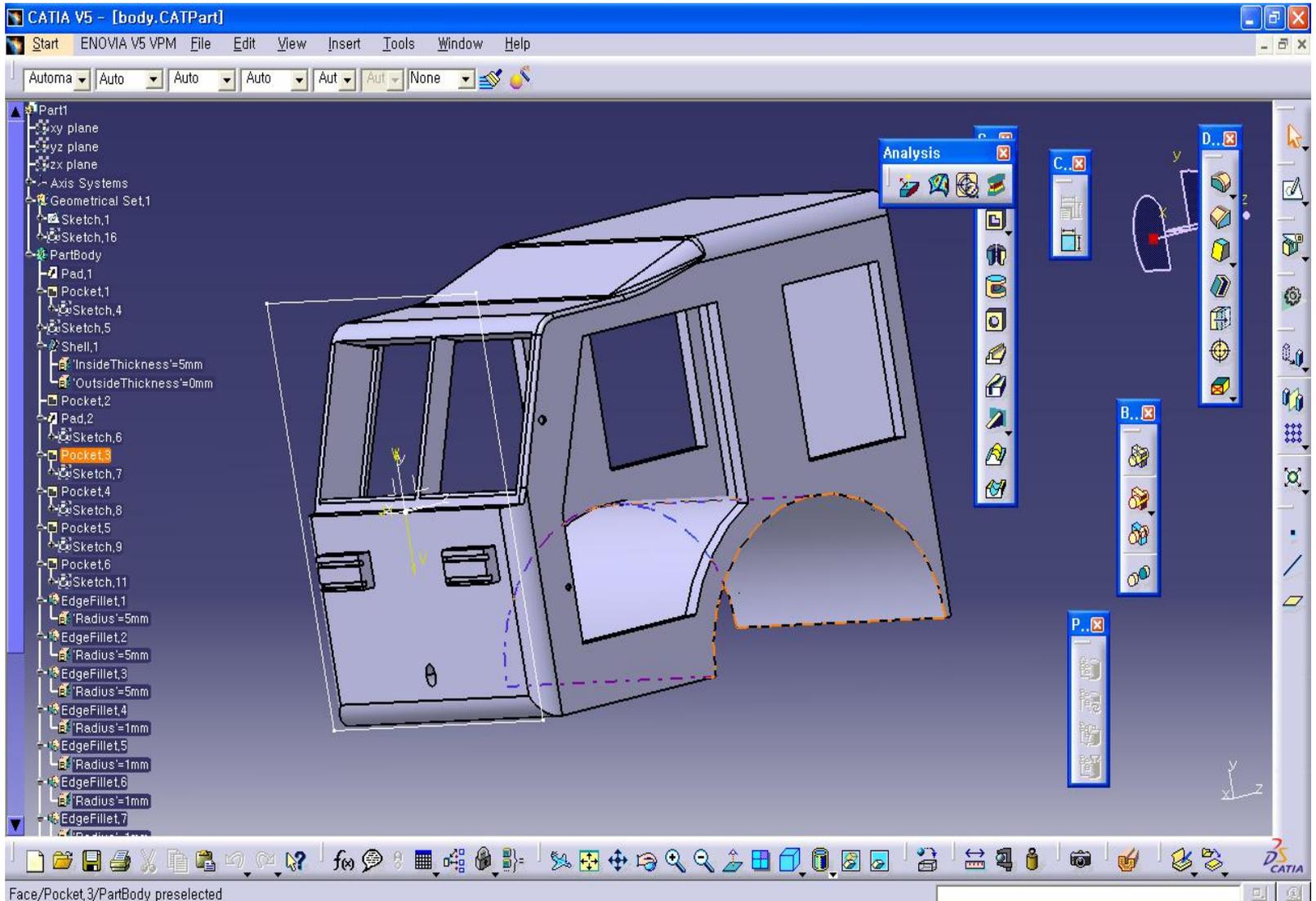
Part1: 머리부분



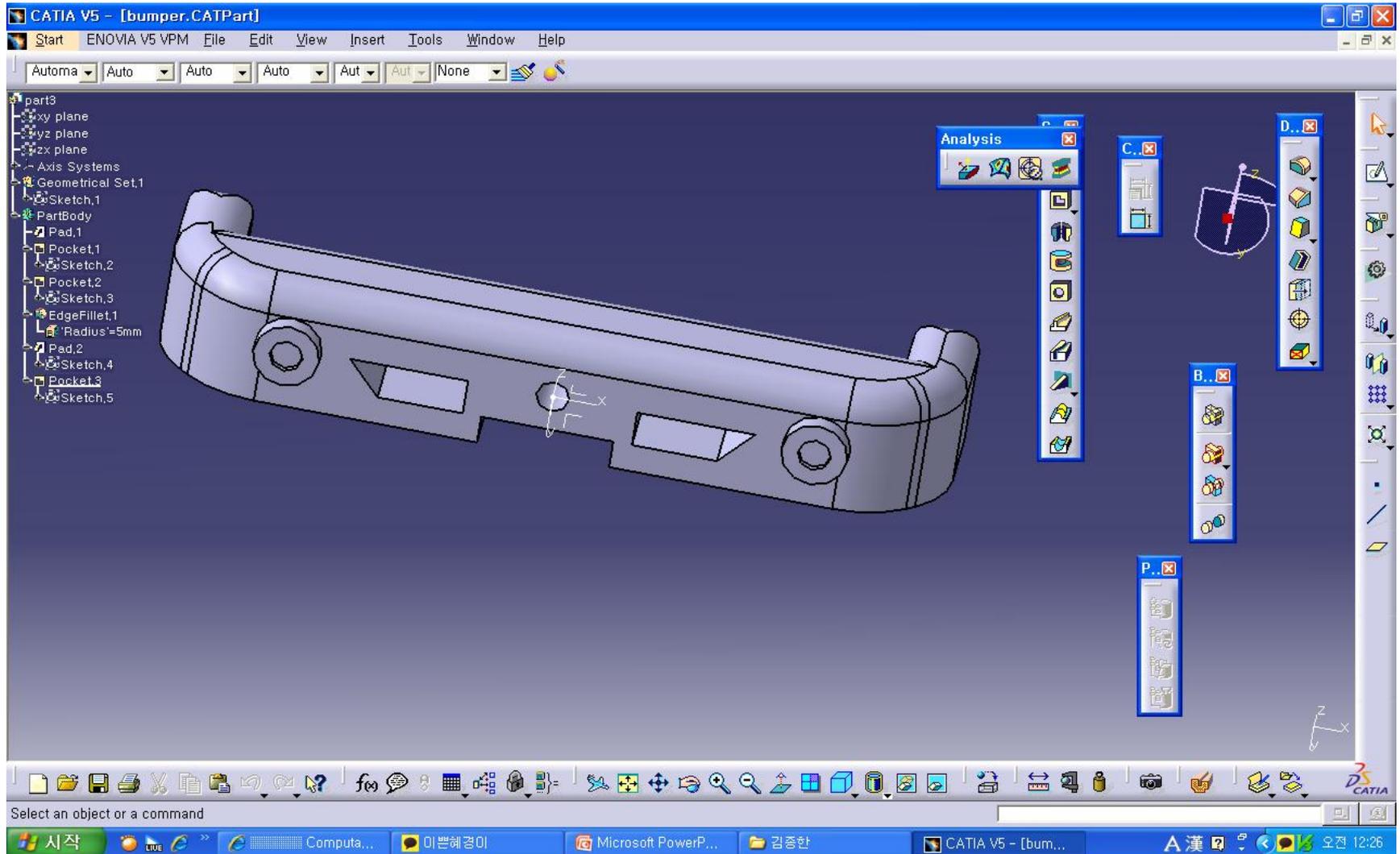
Draft



Body

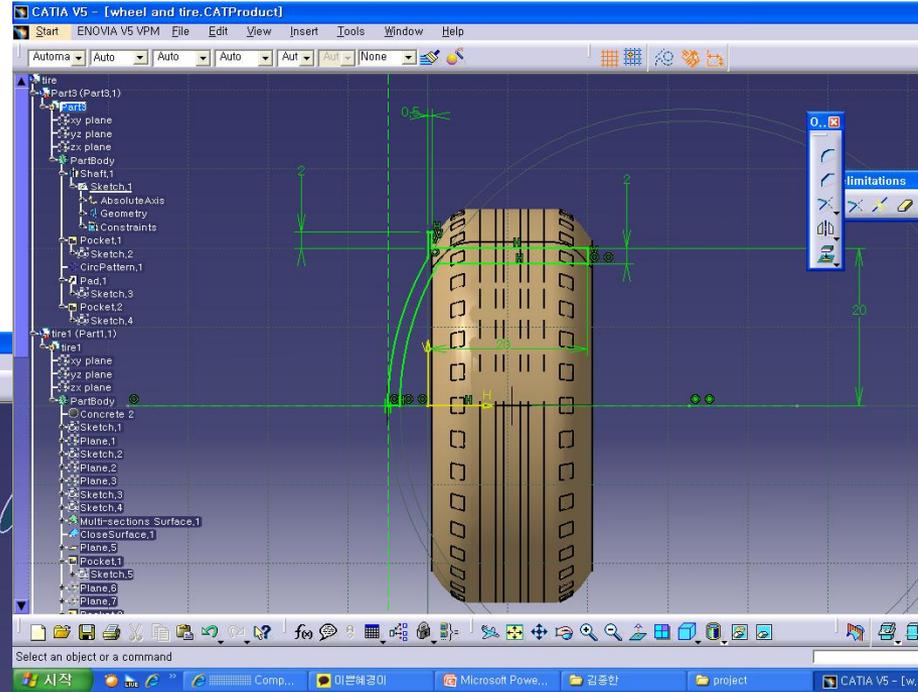
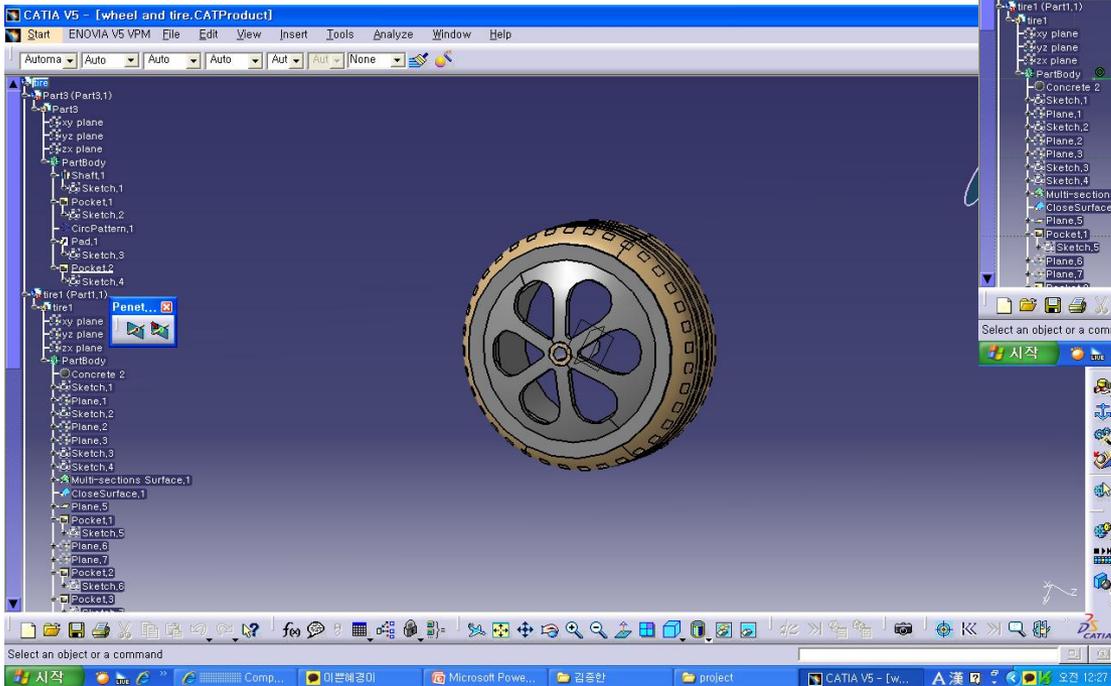


Bumper

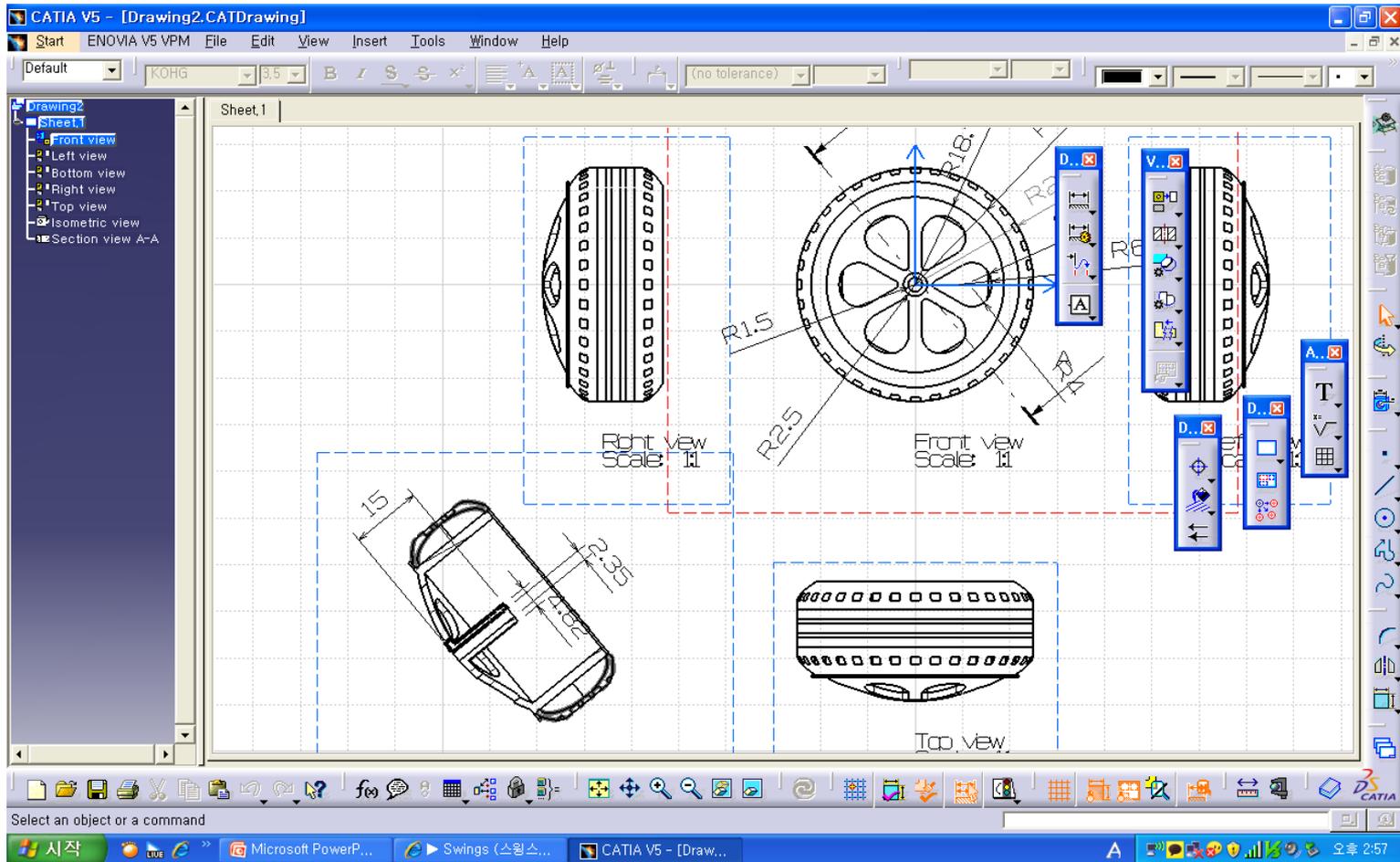


Tire

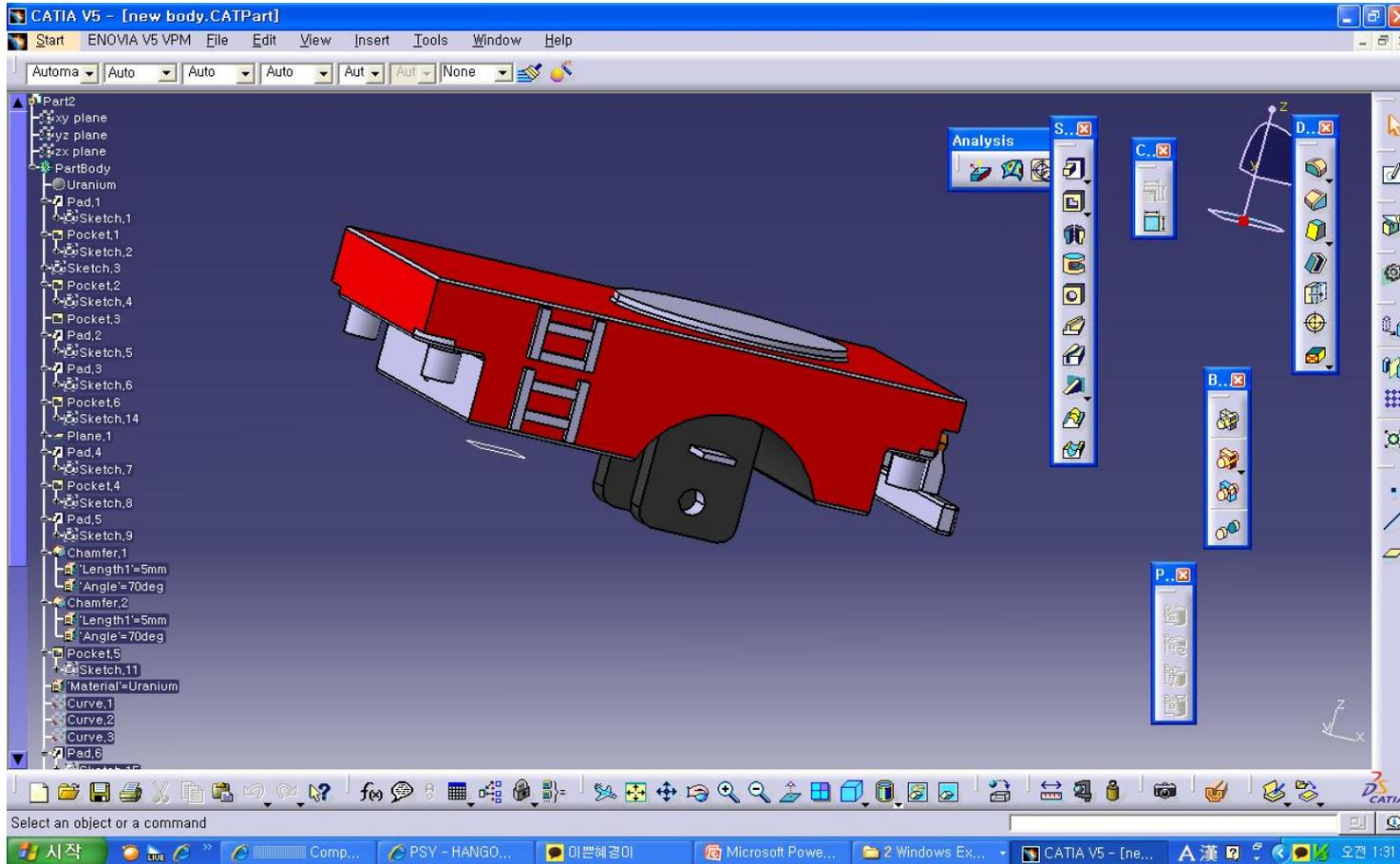
- Multi section solid->



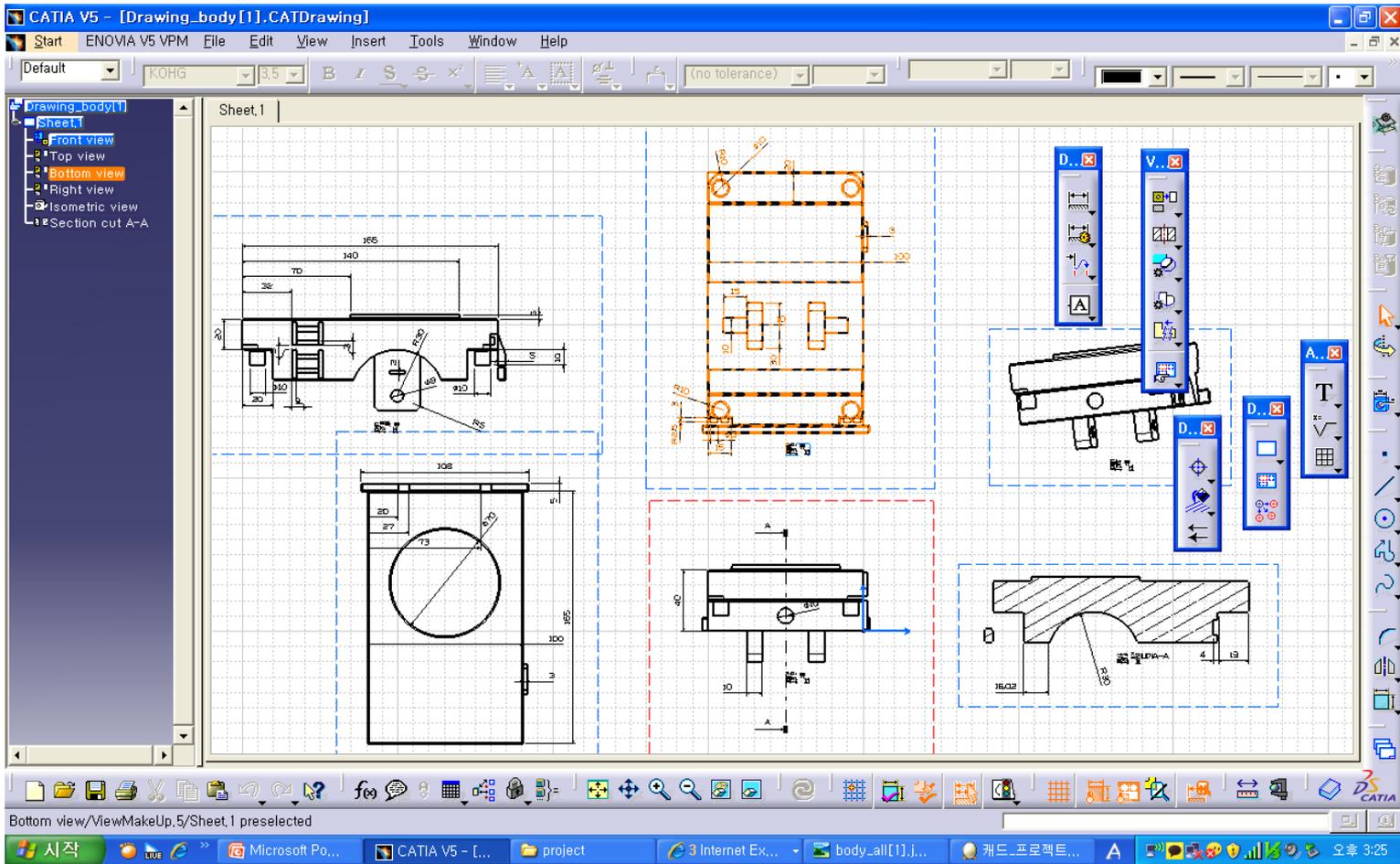
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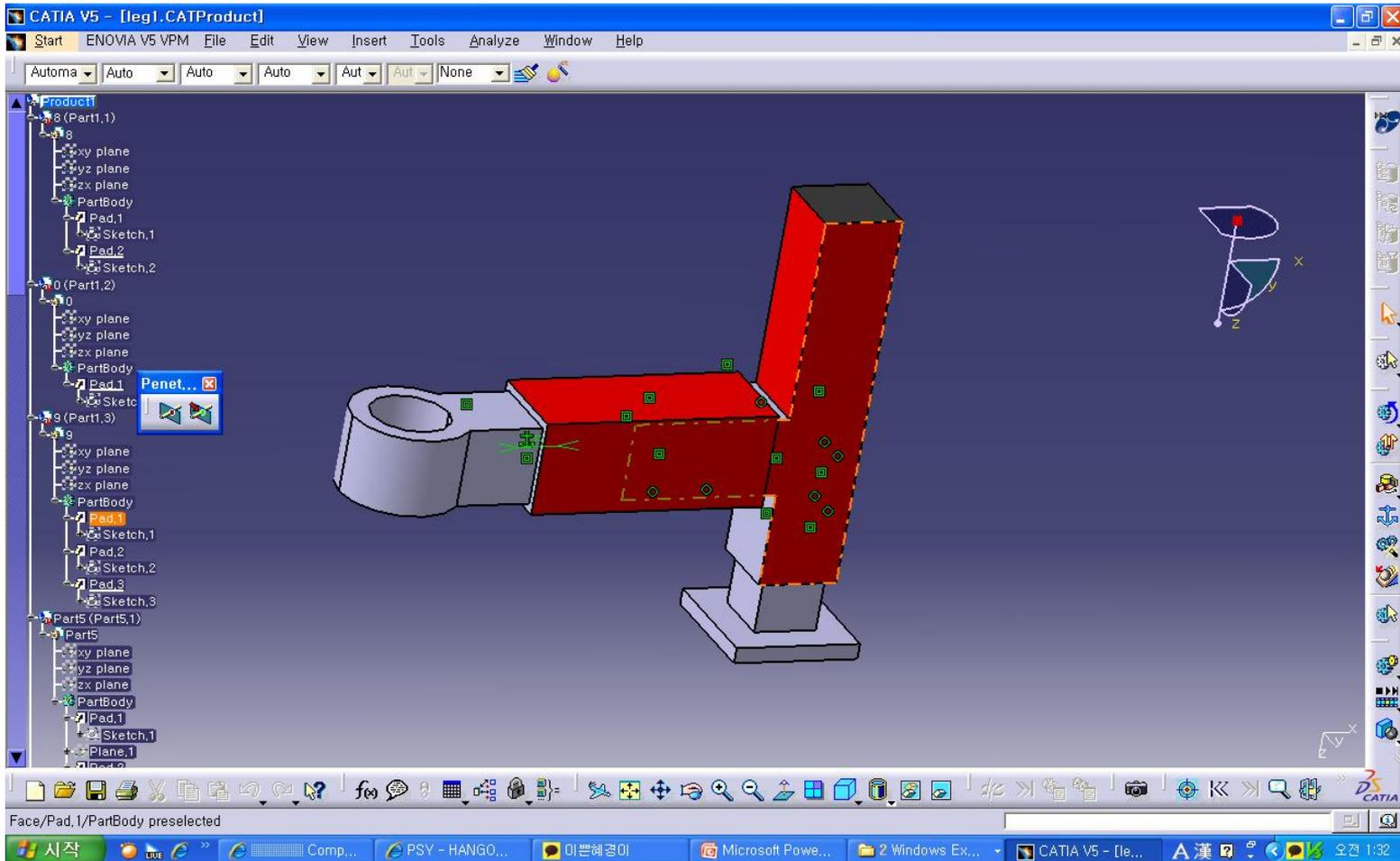
Part2 : 몸통부분



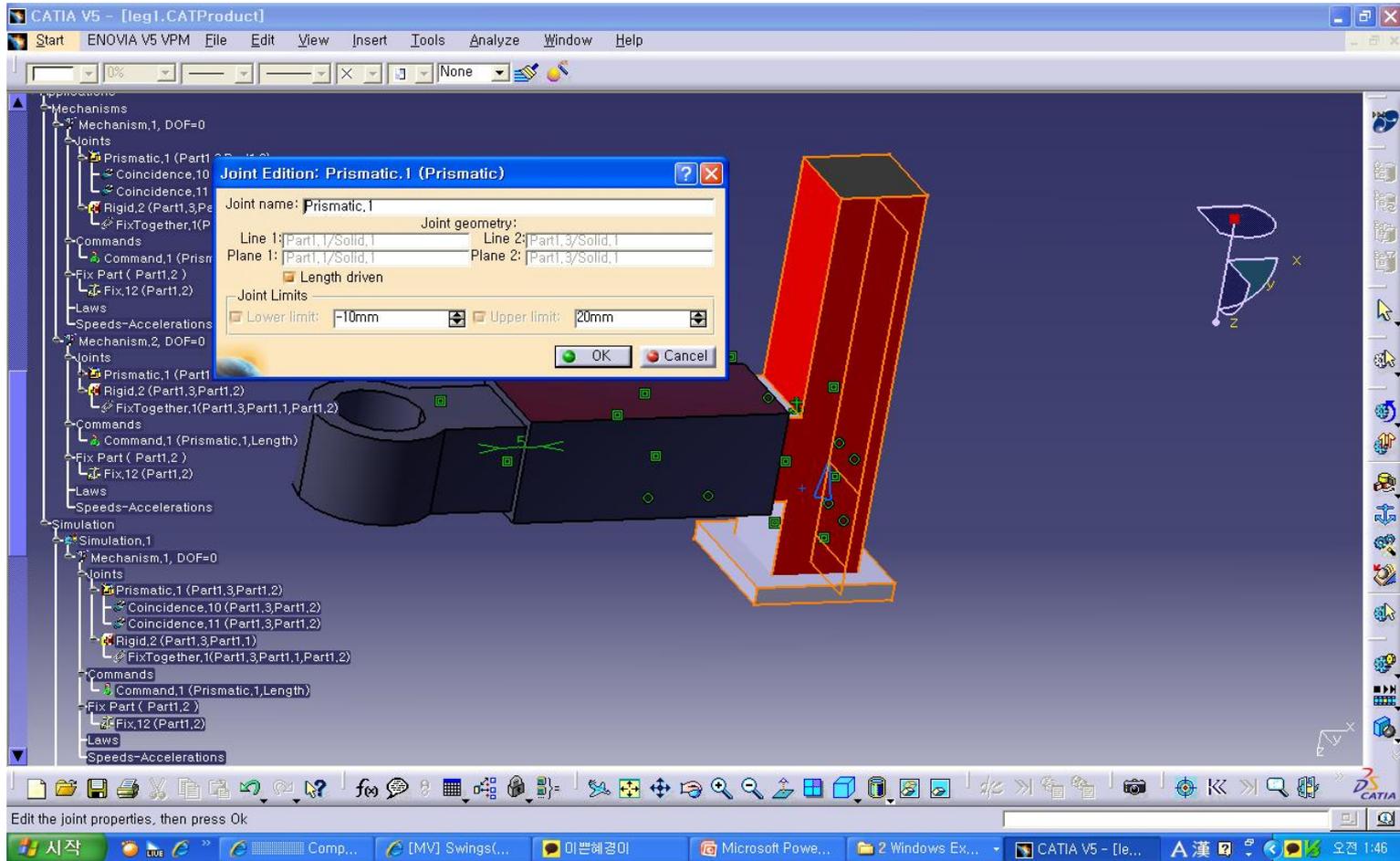
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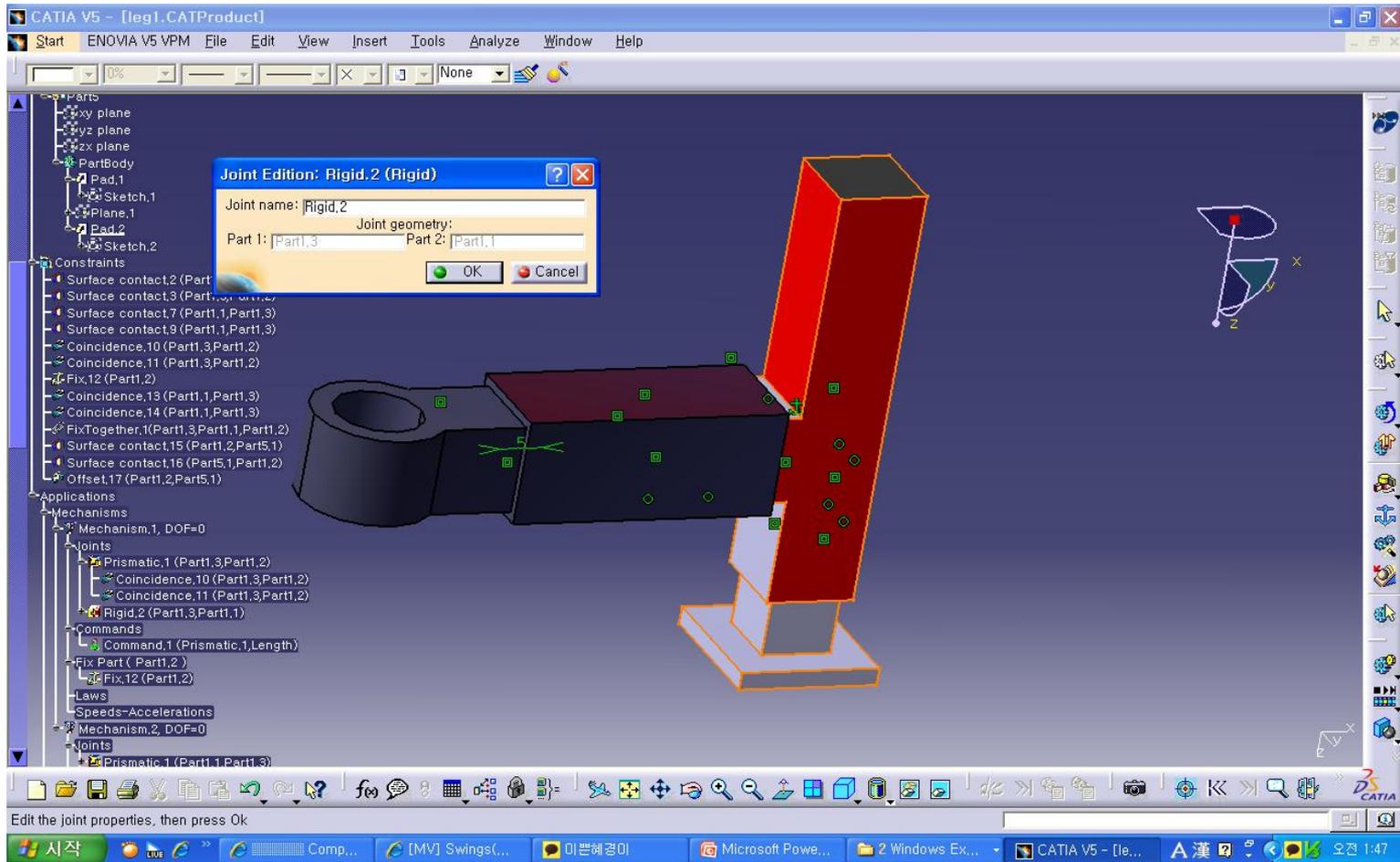
Leg



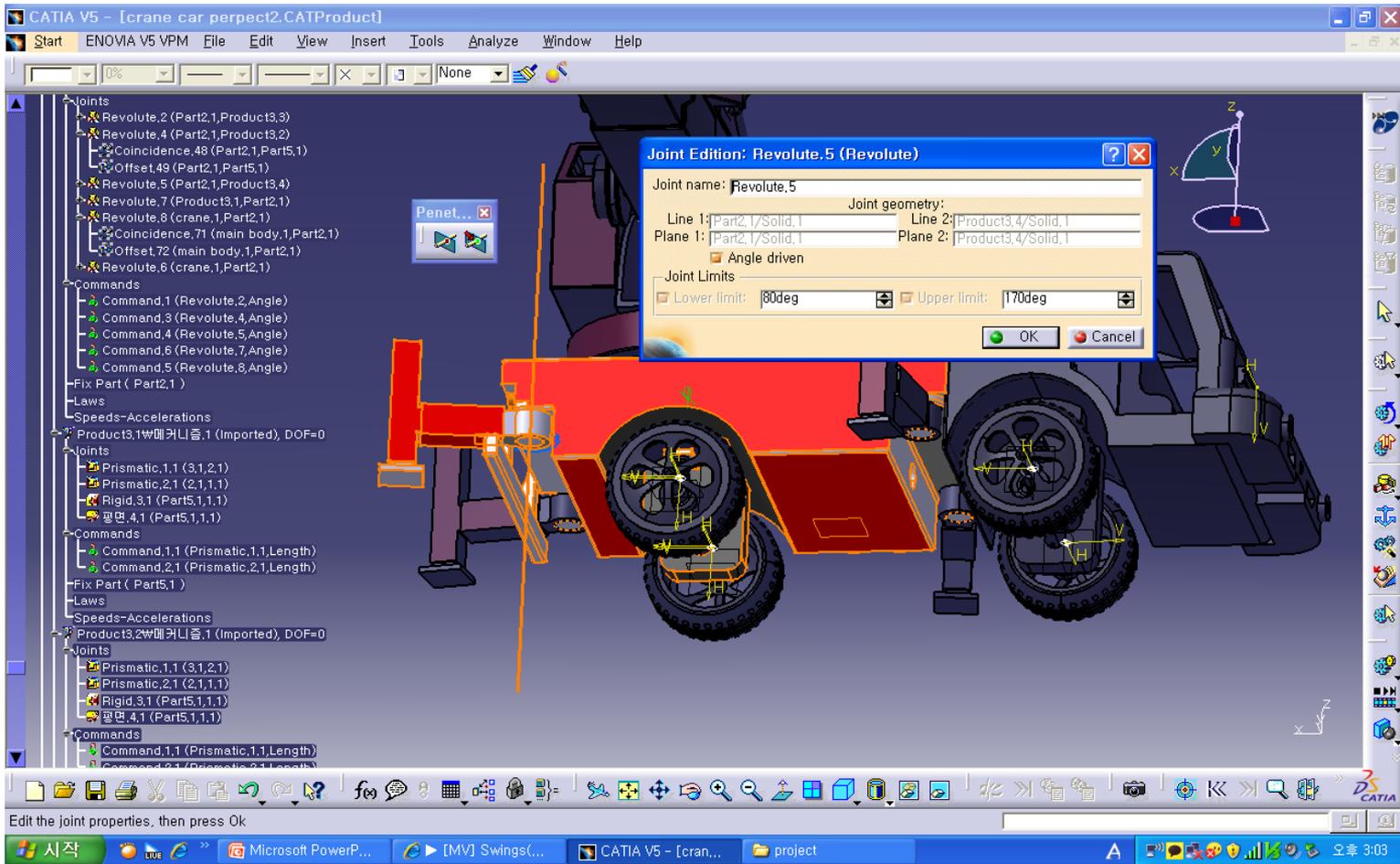
Prismatic joint



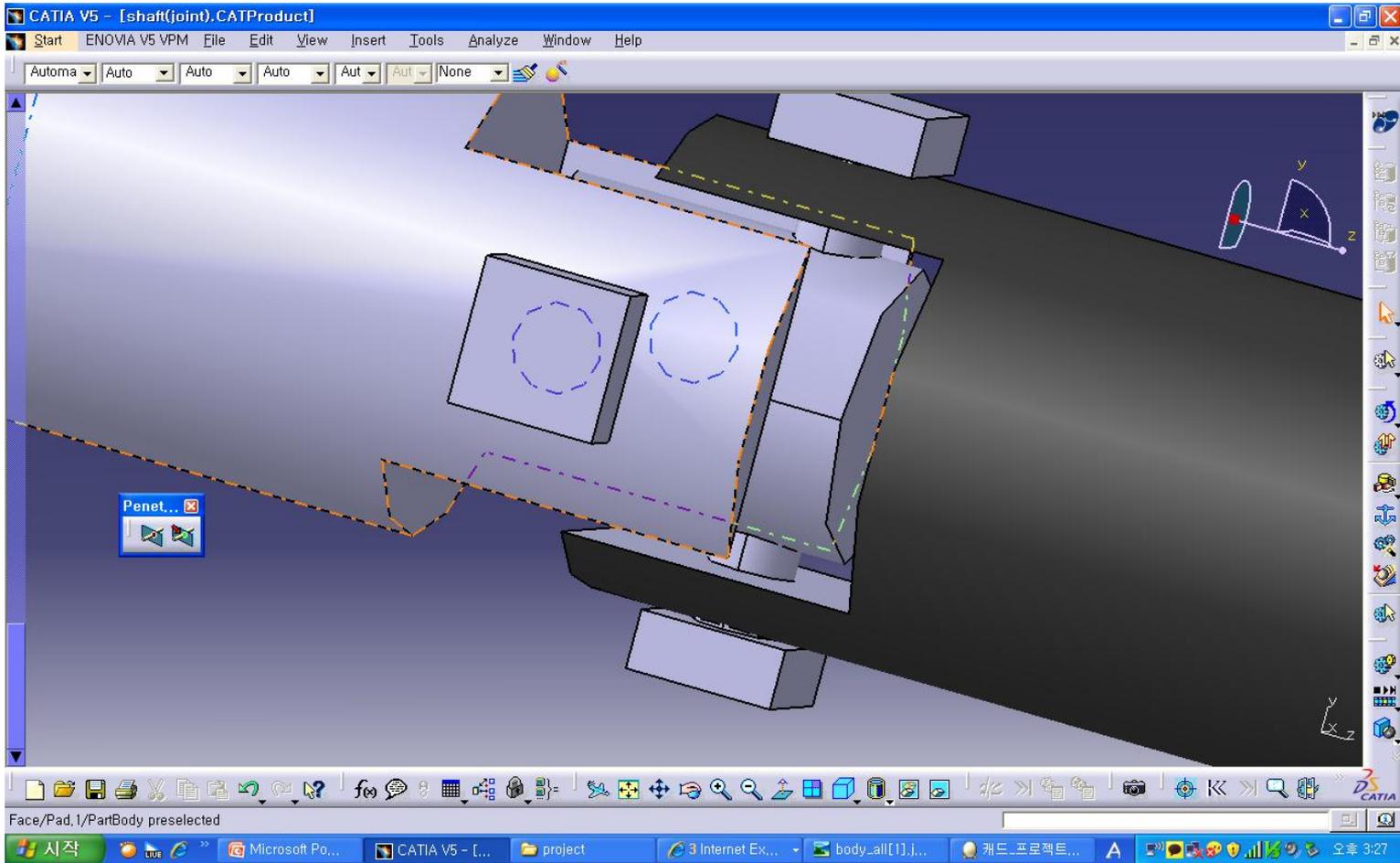
Rigid joint



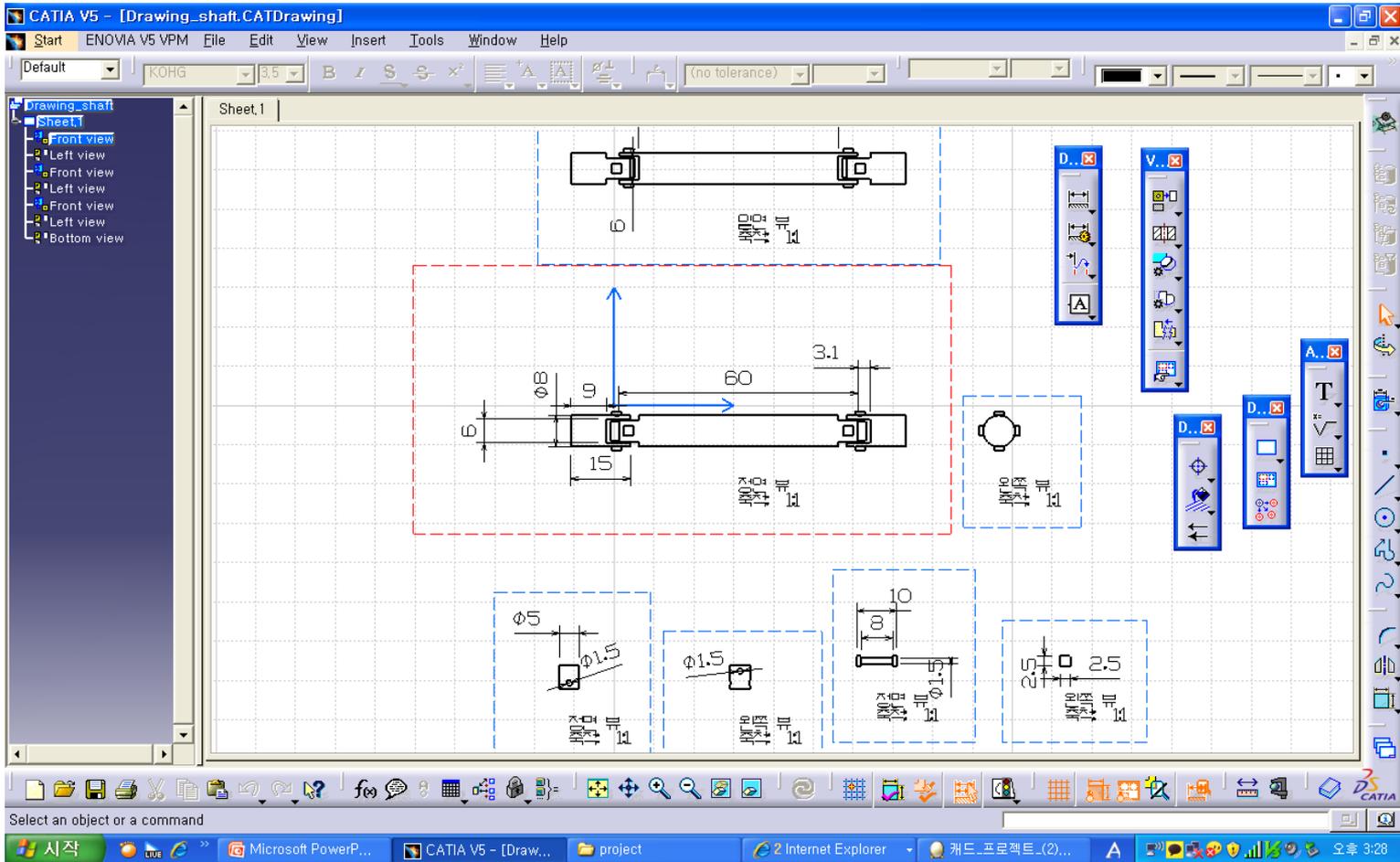
Revolute joint



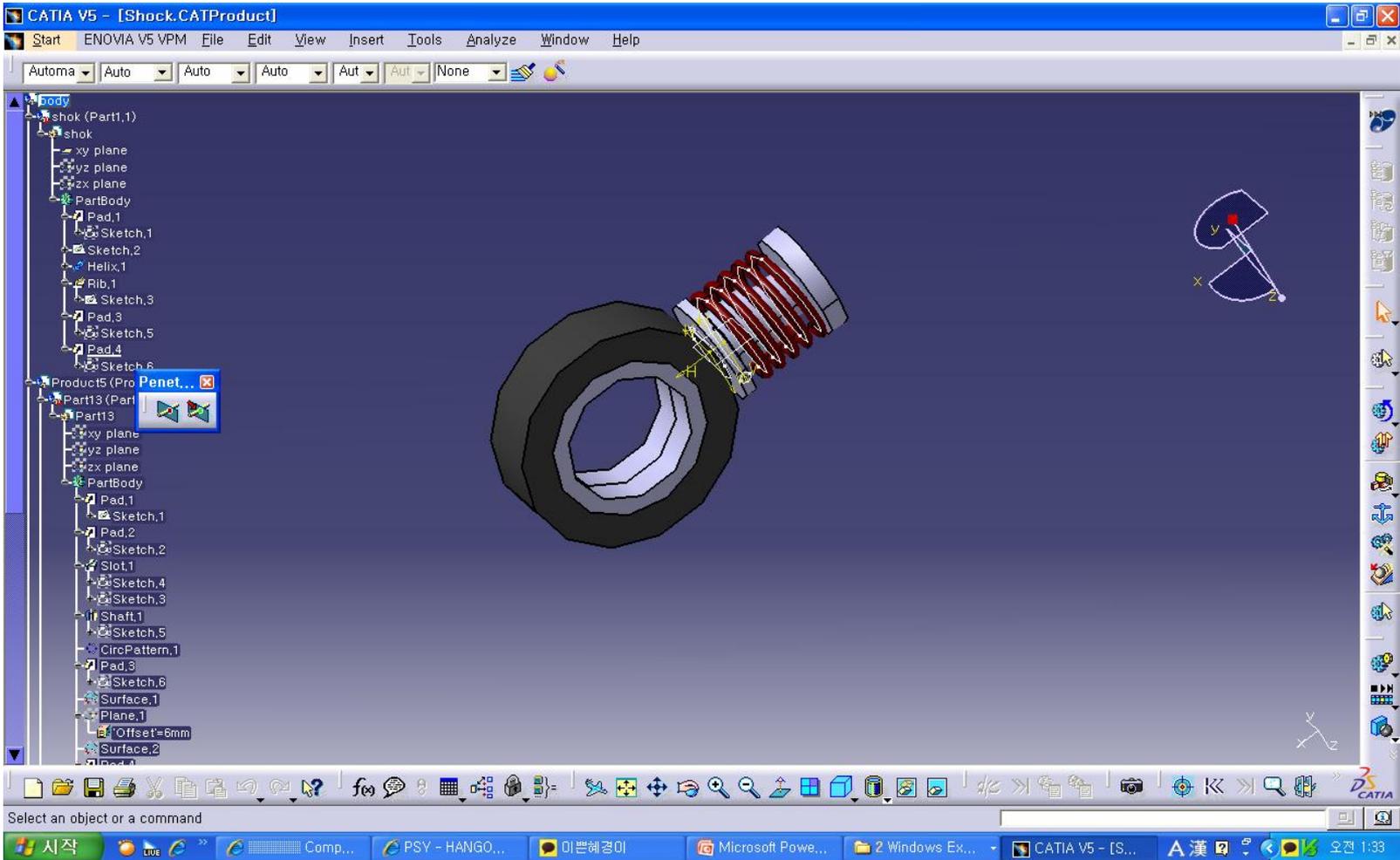
U-joint



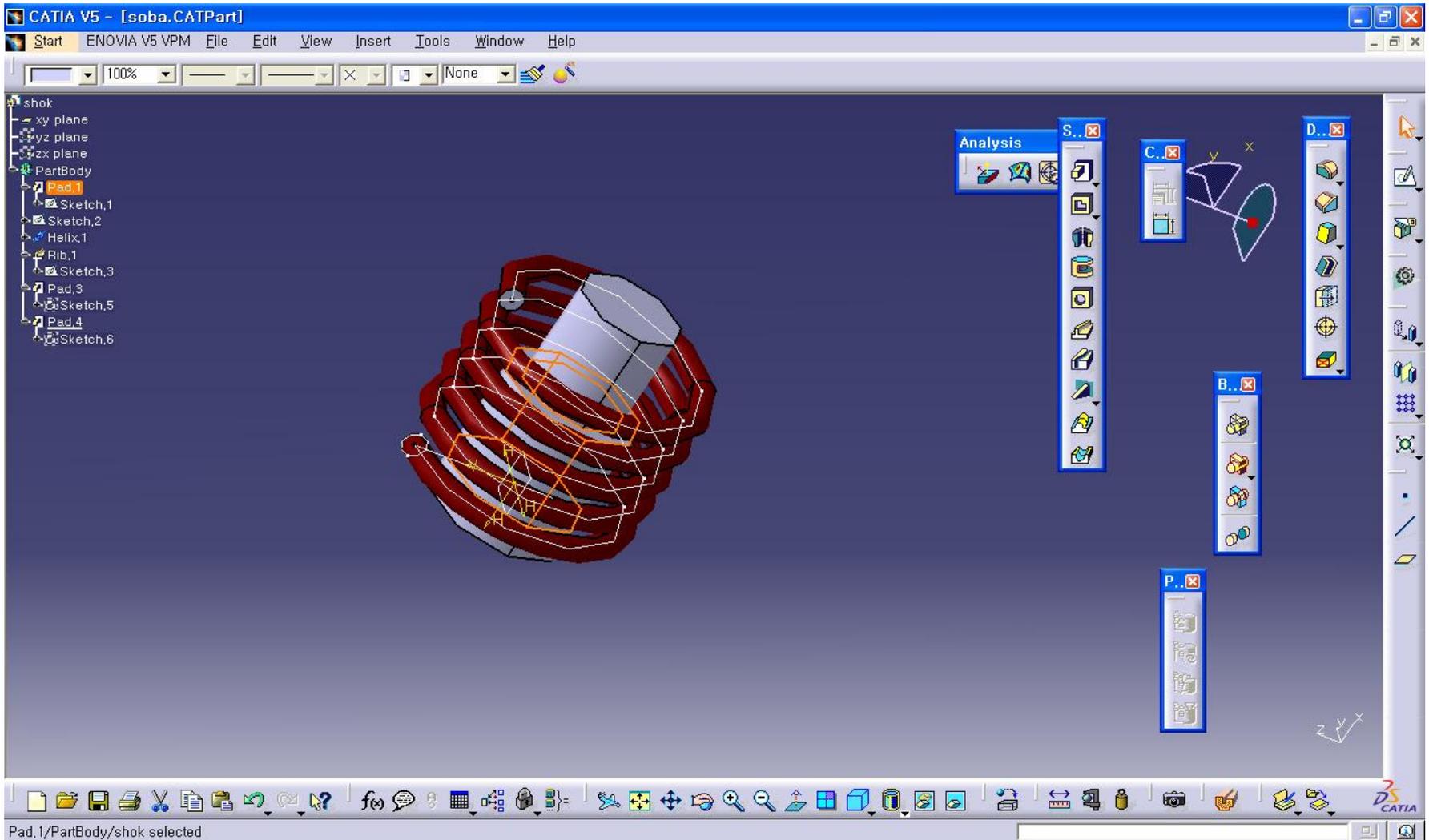
Draft



Shock

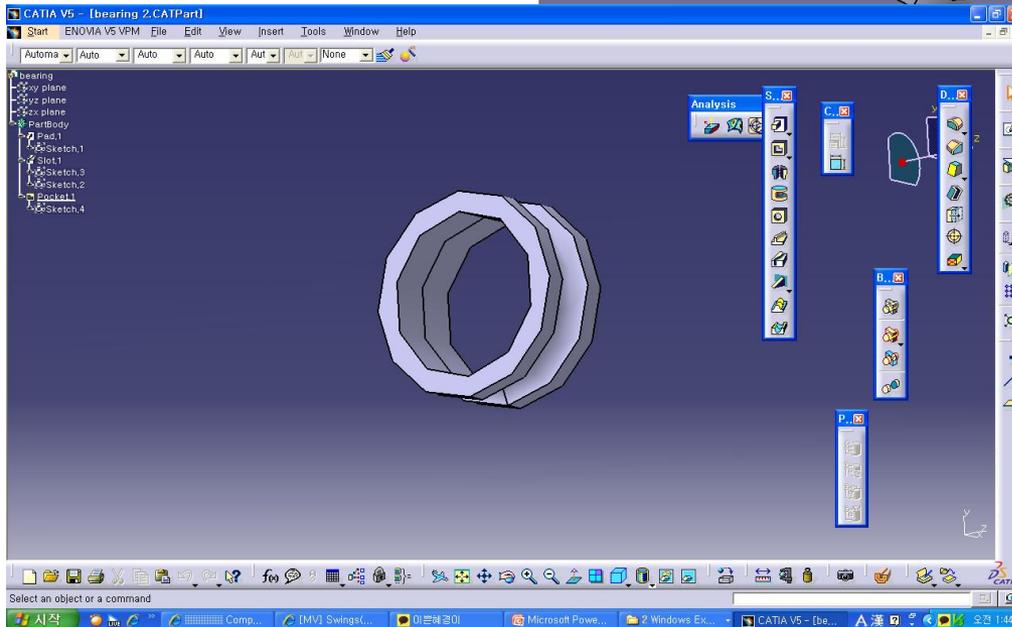
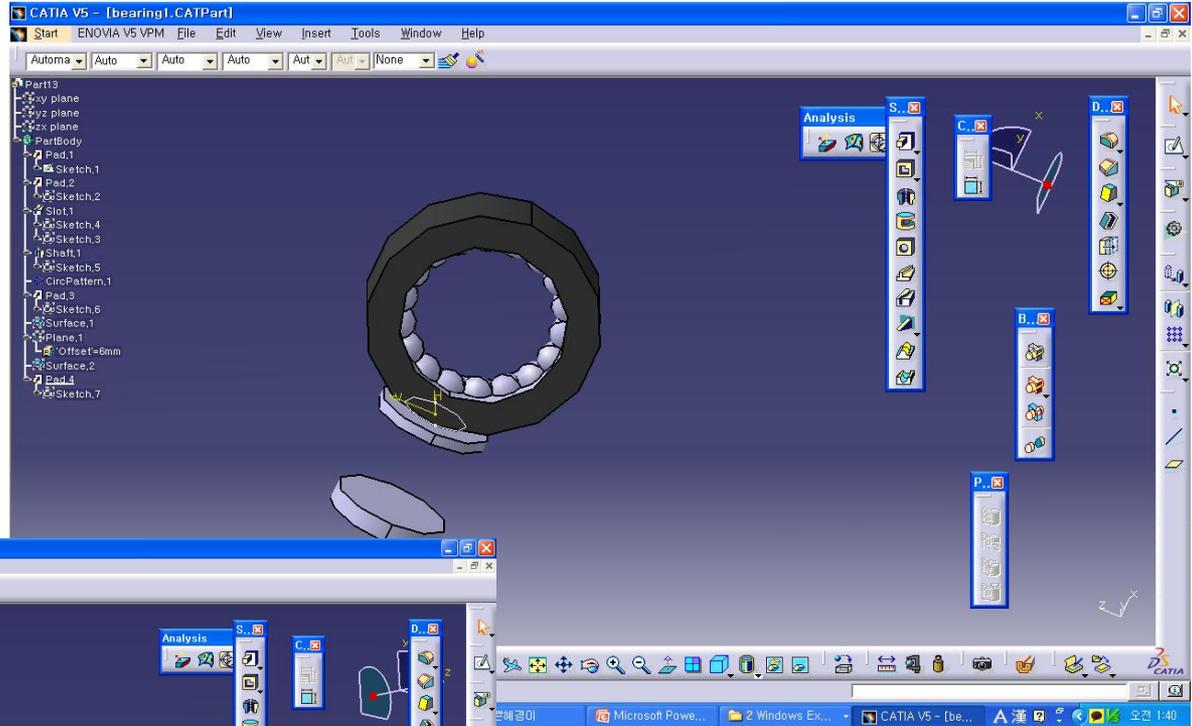


Spring

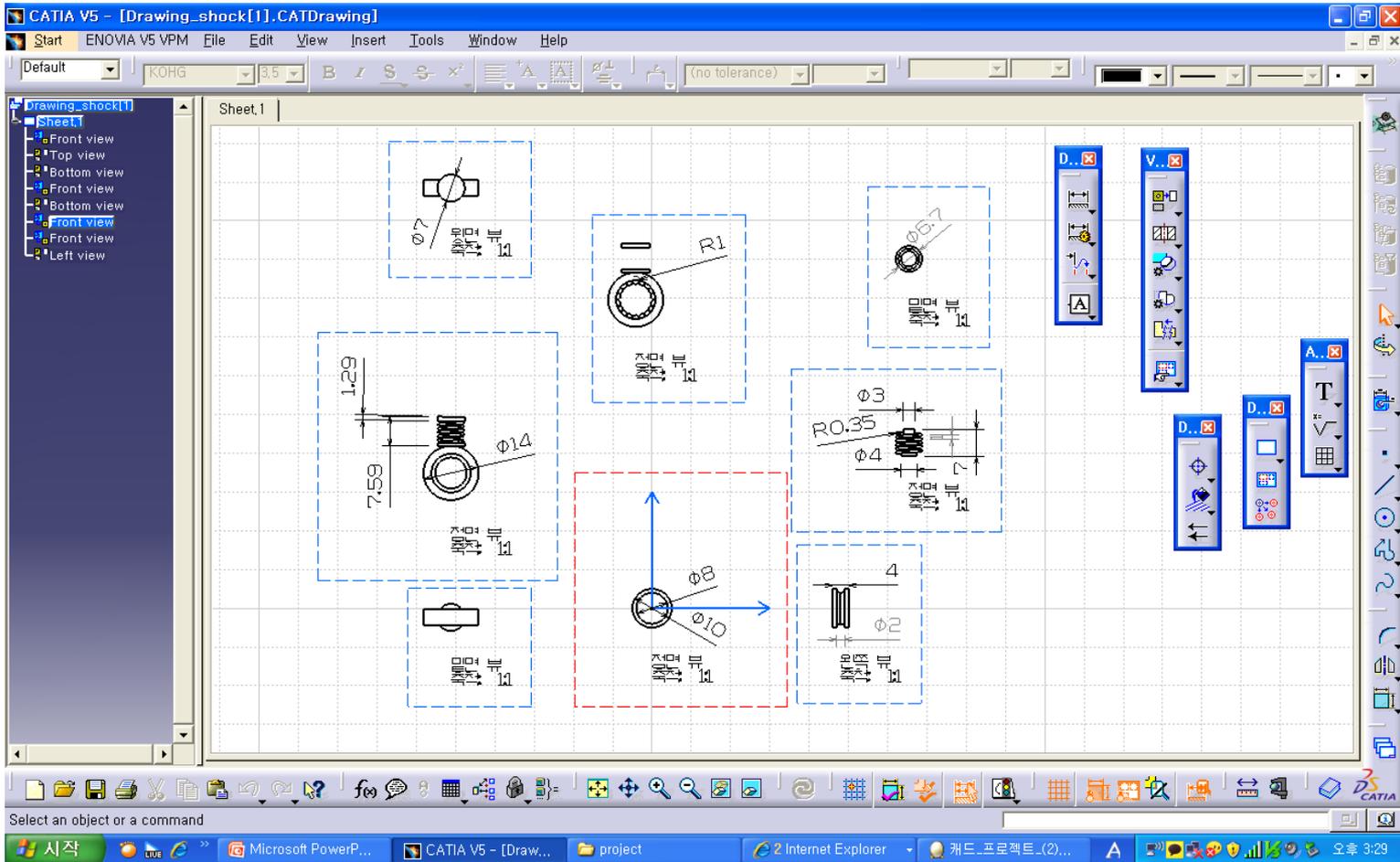


Pad,1/PartBody/shok selected

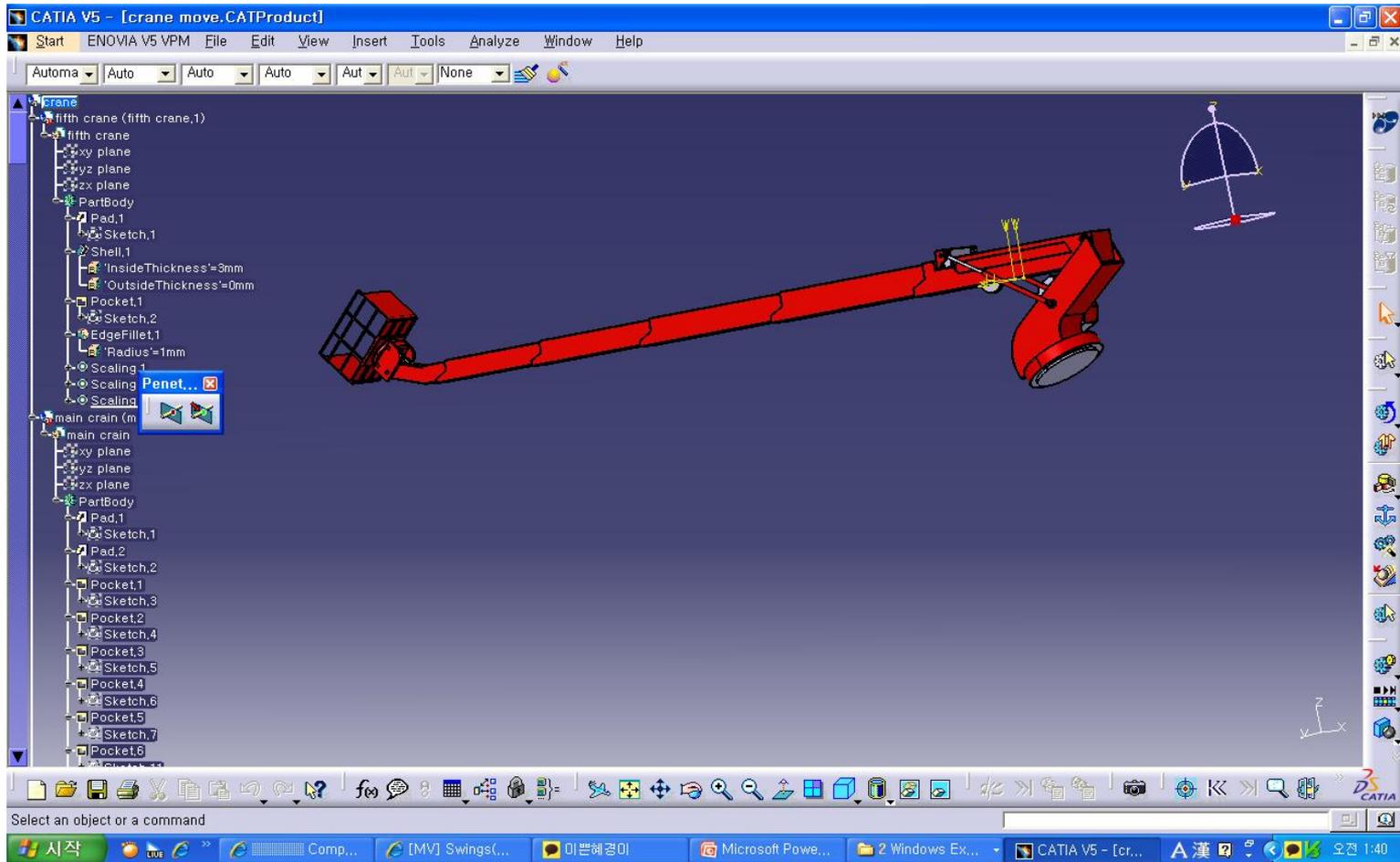
Bearing



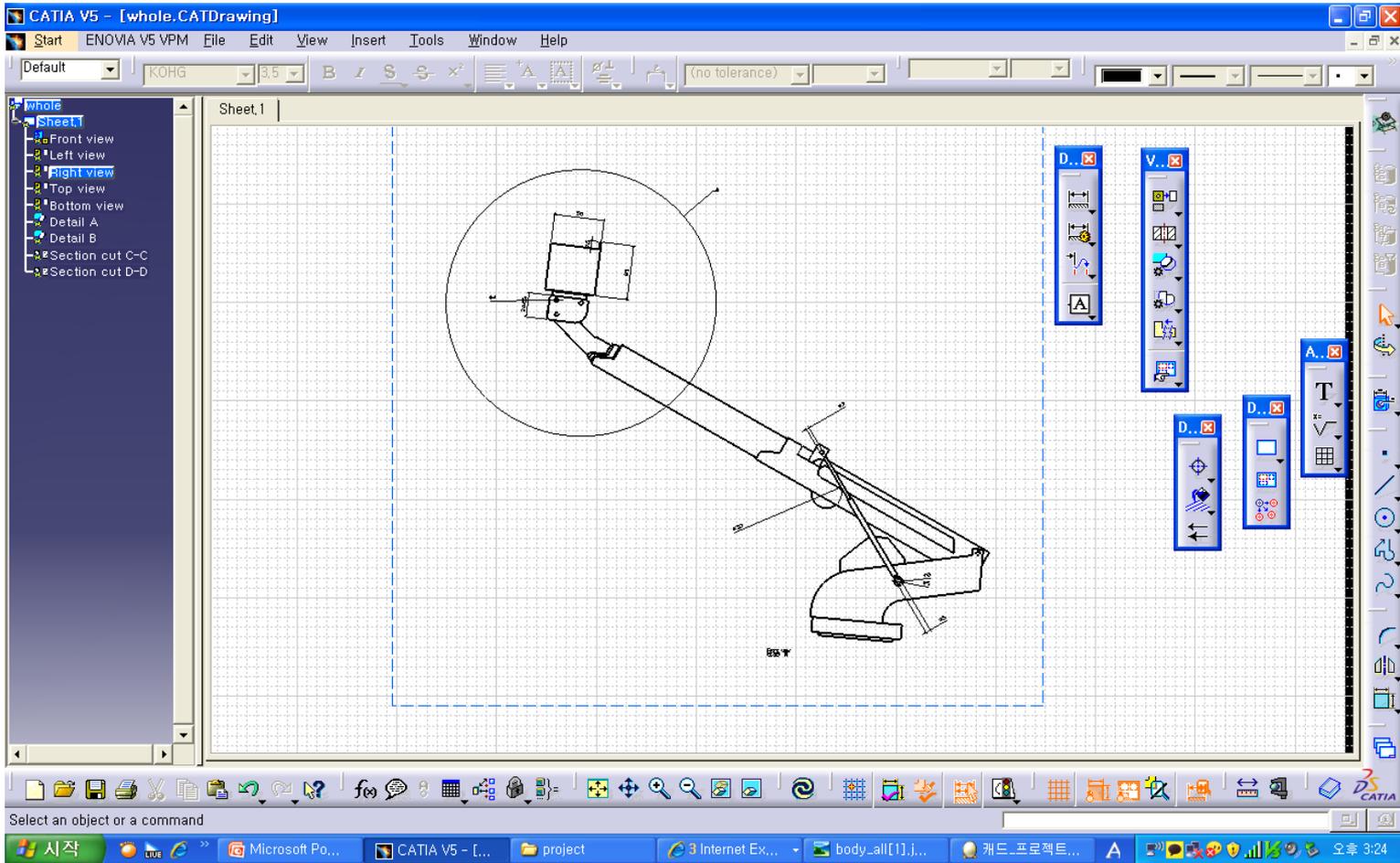
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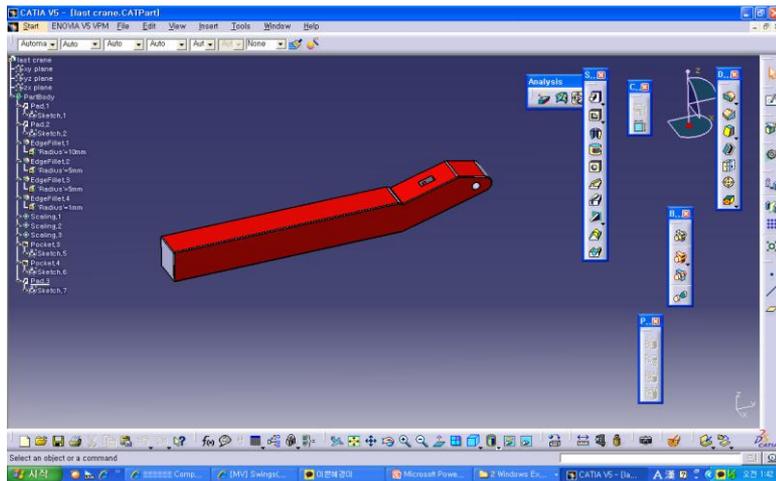
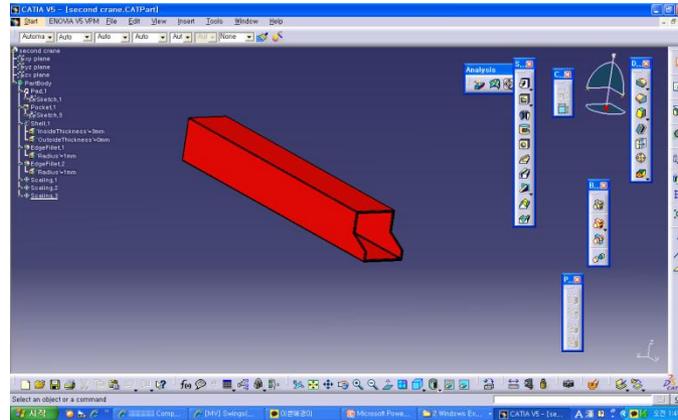
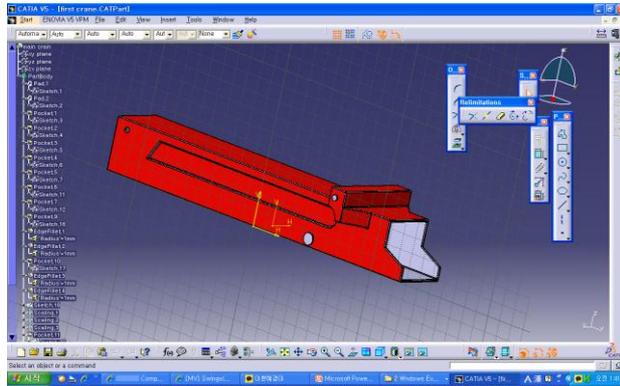
Part3 : crane



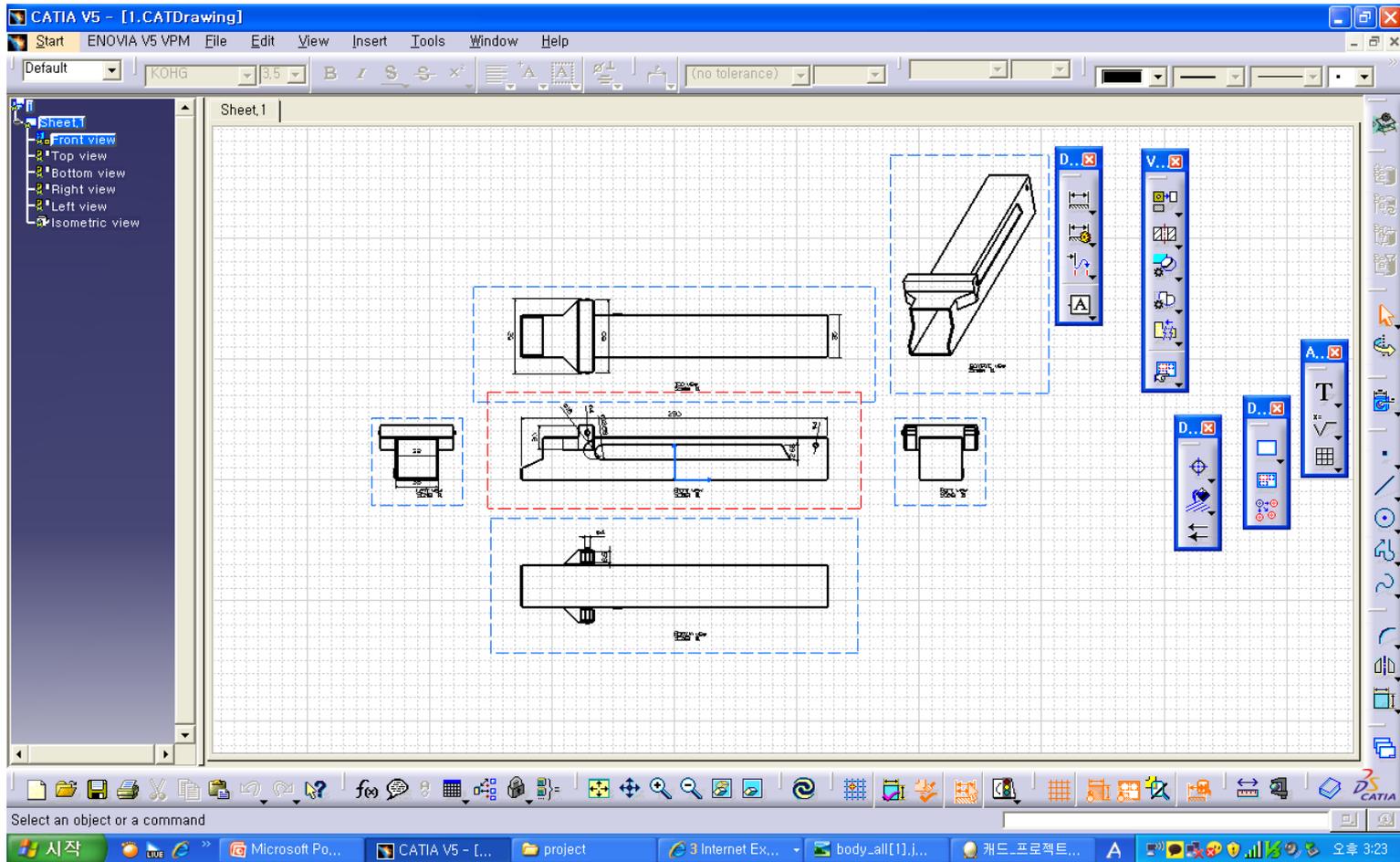
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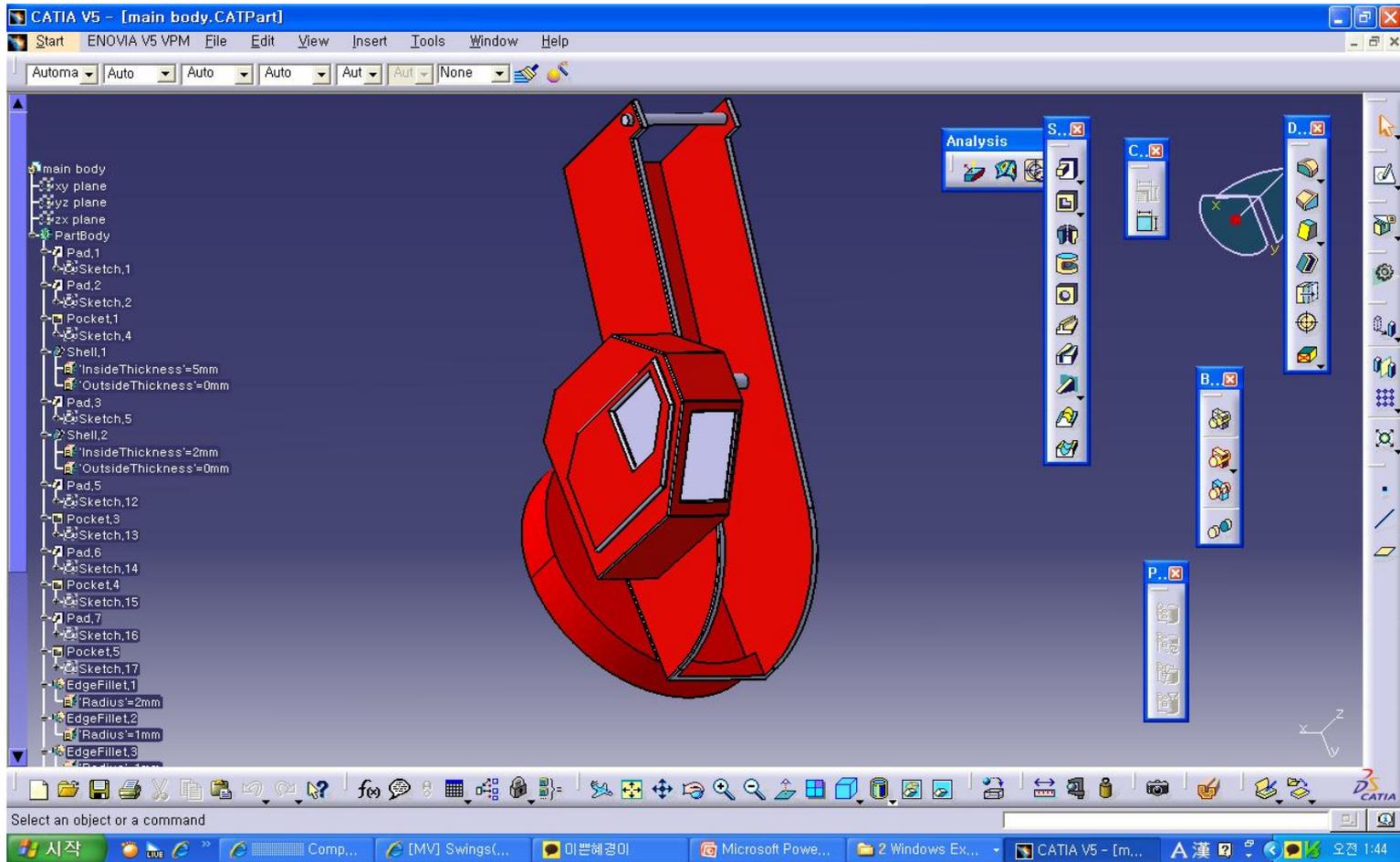
여러 개의 crane



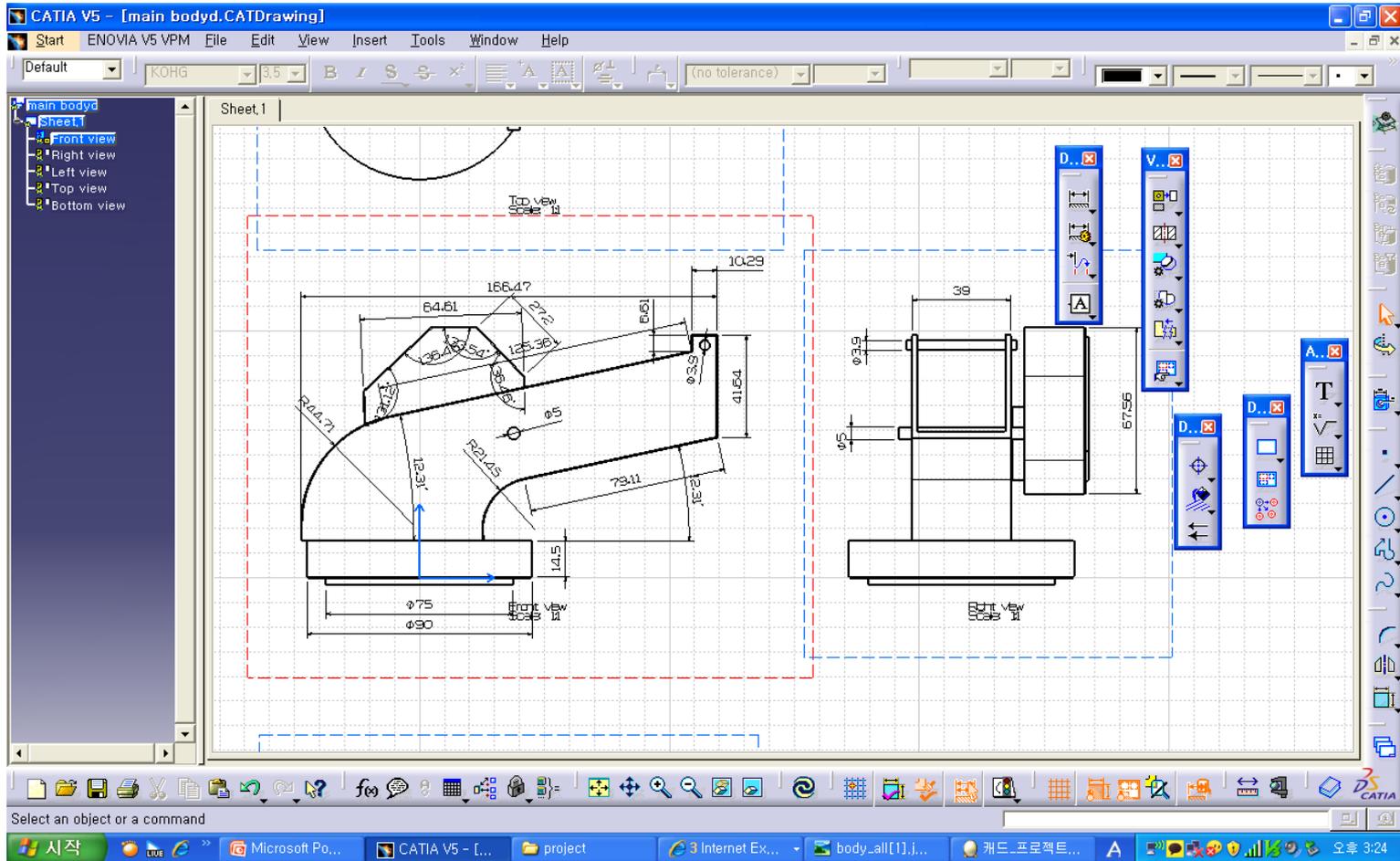
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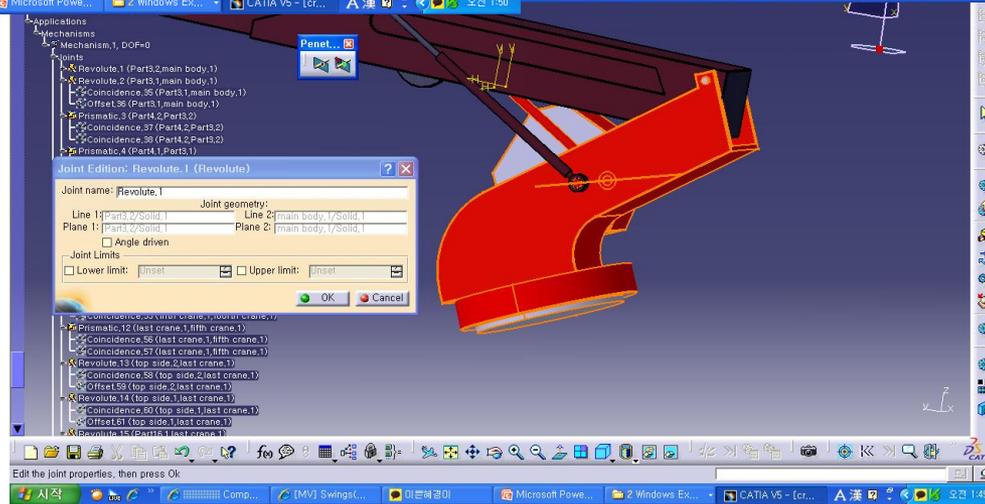
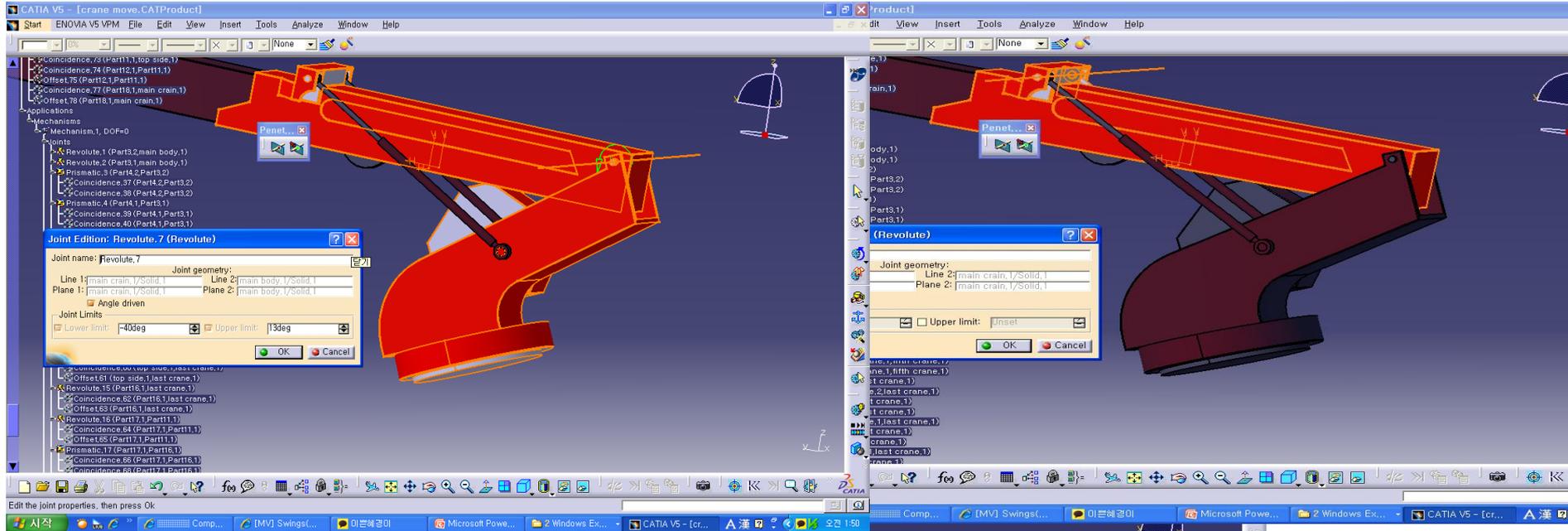
Main body



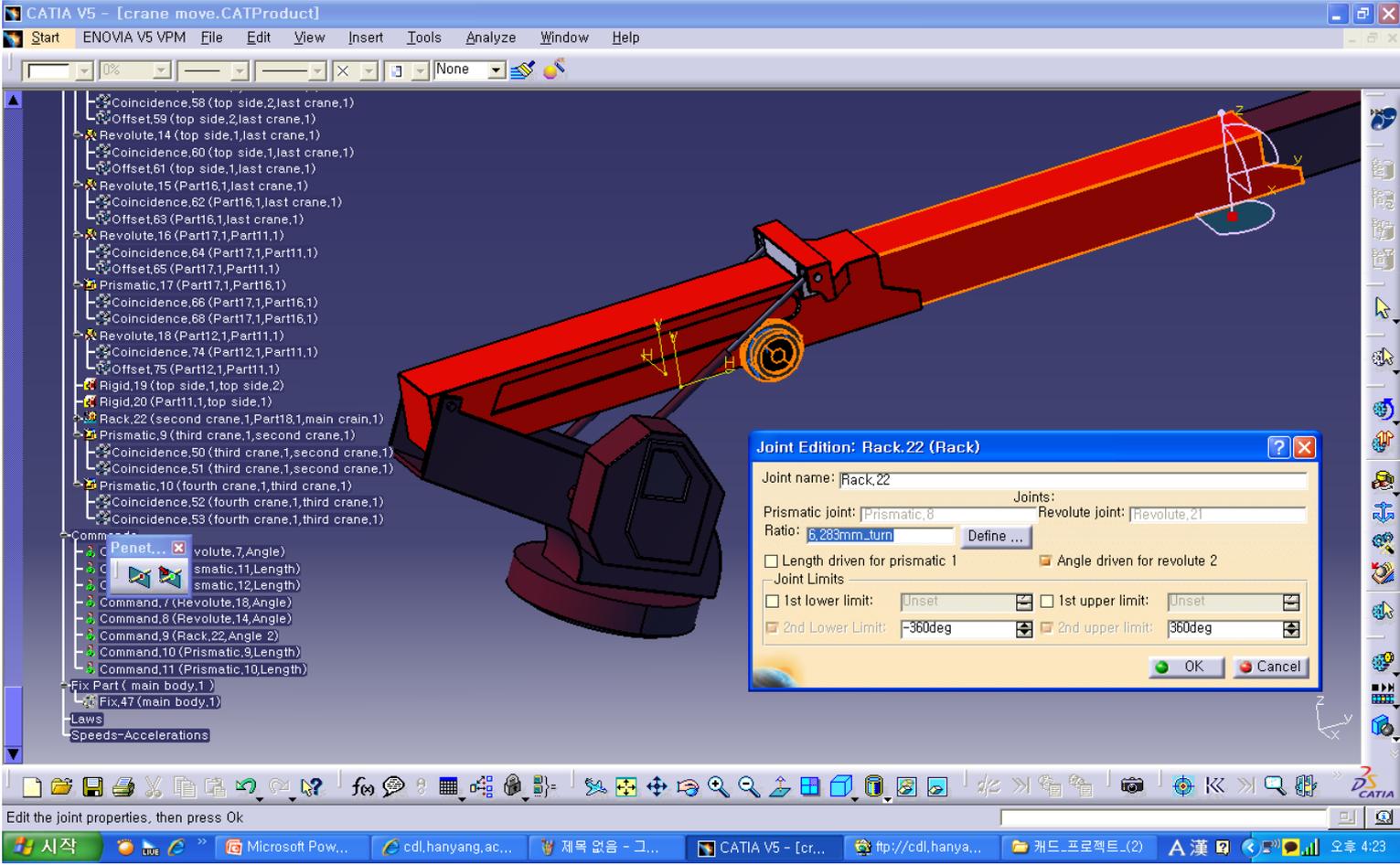
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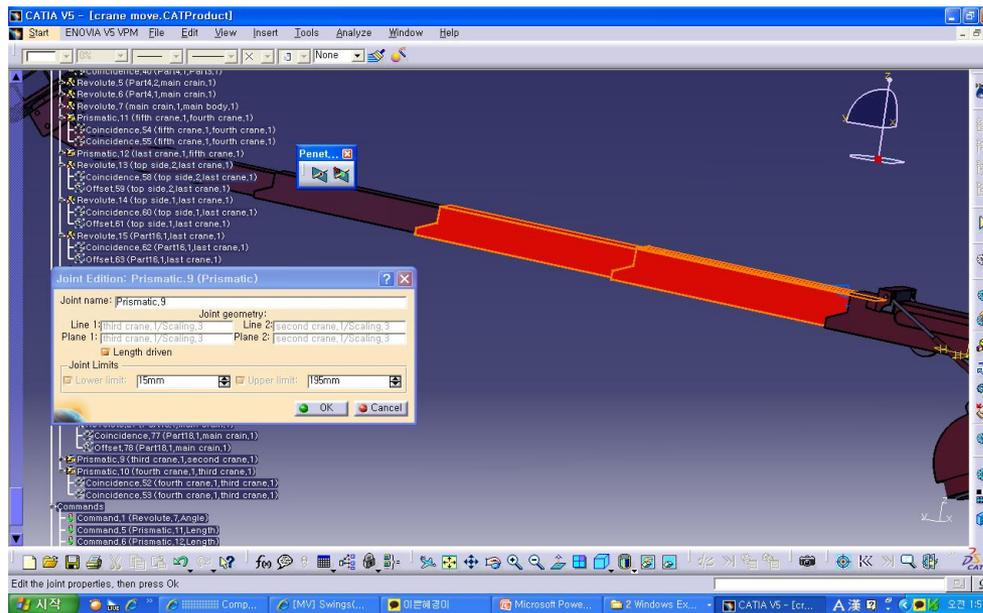
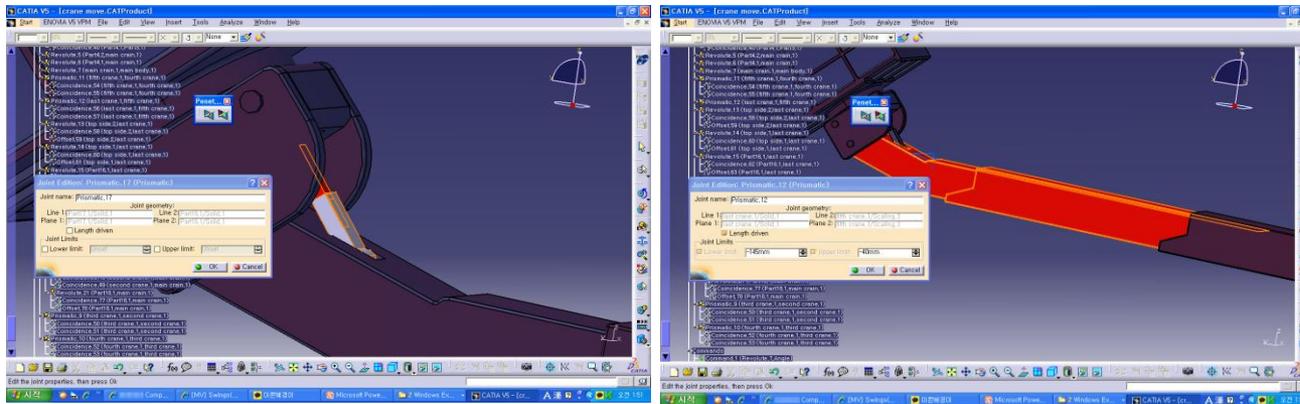
Revolute joint



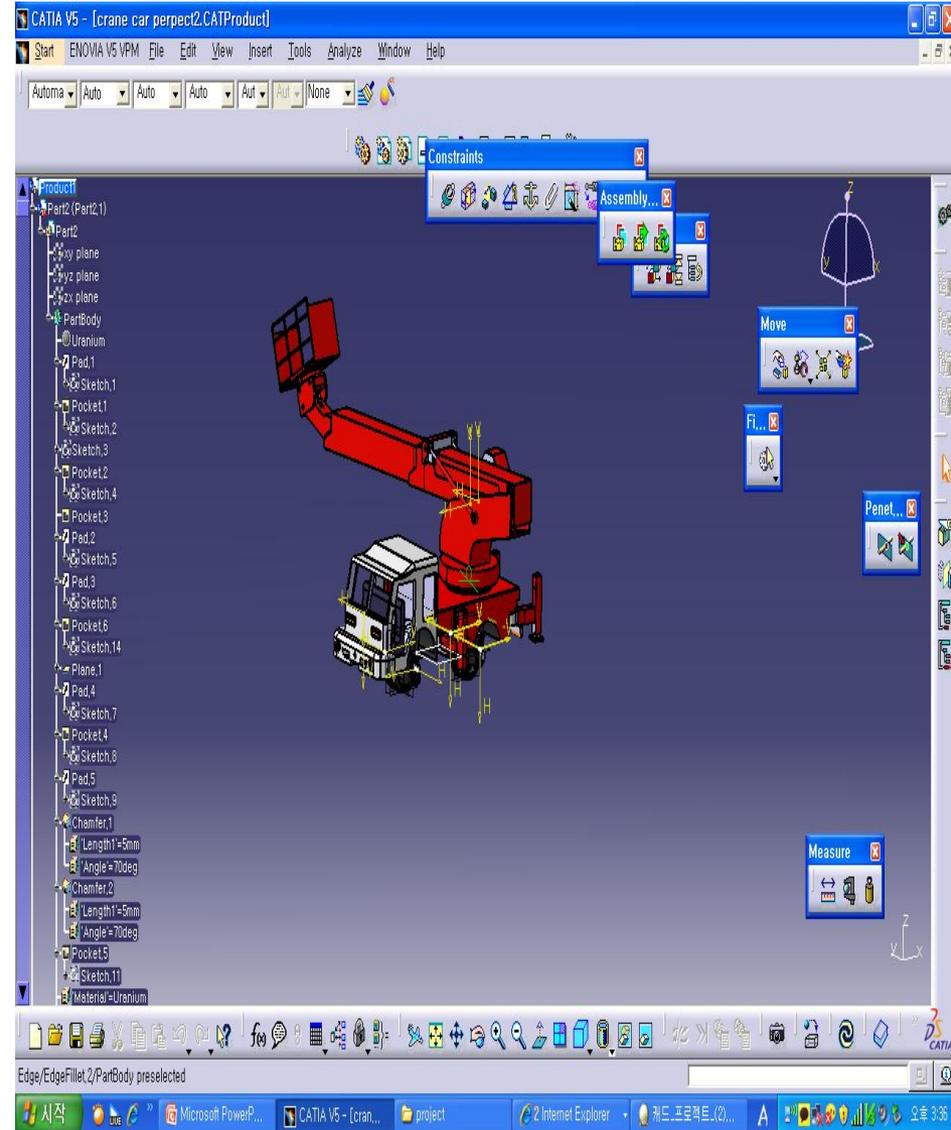
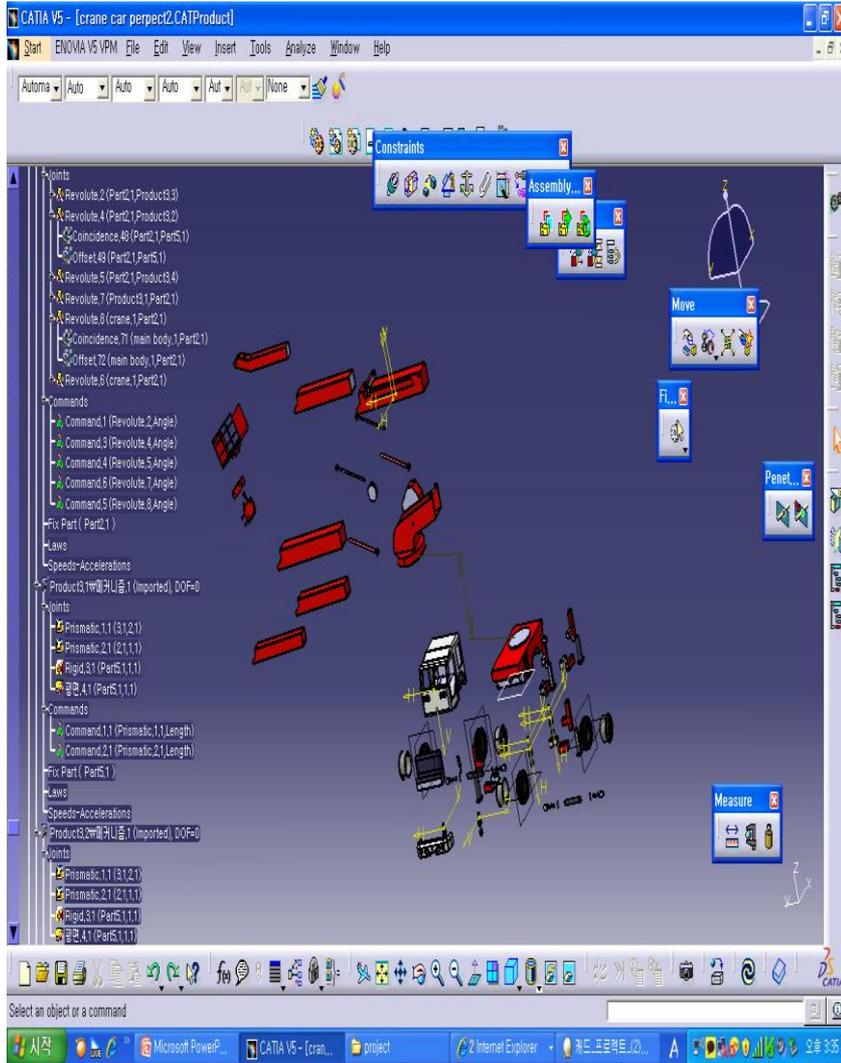
Rack joint



Prismatic joint



Assembly



동영상

- 동영상 용량이 너무 커서 컴퓨터로 실행.

문제점

- 1. 정확한 치수를 잴 수 있는 모델이 없기 때문에, 조원들끼리 치수를 맞추어 가며 만드는 점에 어려움이 있음
- 2. 파트의 개수 과다로 합쳤을 경우 어떤 부분에서 문제가 발생했는지 확인하기 어려움.



감사합니다.

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