



01/05/2020

Cursos y Master en CATIA

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|----------------------------|-----------|
| • Cursos de CATIA de | 50 horas |
| • Curso Expres de CATIA | 100 horas |
| • Curso de Diseño | 200 horas |
| • Curso de CATIA CAE + CAM | 200 horas |
| • Curso de Experto | 200 horas |
| • Curso de Especialista | 200 horas |
| • Master de CATIA | 400 horas |
| • Master de CATIA | 600 horas |
| • Máster Total en CATIA | 800 horas |

Cursos de CATIA 50 horas (presenciales)

- Diseño
- Superficies
- Simulaciones
- Elemento finito
- Sheet Metal
- Mecanizado
- Moldes
- Piping, Tubing y HVAC
- Composites
- AEC Plant
- Electrical
- Utillaje

Cursos de CATIA 100 horas (adaptables)

- CATIA Diseño
- Superficies
- Reverse Engineering
- Simulaciones
- Elemento Finito
- Mecanizado
- Piping, Tubing y HVAC

CATIA Diseño

200 horas Curso online (adaptables)

Incluye los módulos o Workbenches:

01. Sketcher,
02. Part Design,
03. Knowledge
04. F. Tolerancing & Annotation
05. Wireframe,
06. G.Shape Design
07. Assembly,
08. Space Analysis,
09. P. Tolerancing & Annotation
10. Photo Editor
11. Real Time Rendering
12. Ergonomics
13. DMU Navigator
14. Catalog Editor
15. Material Library
16. Drafting,
17. DMU Fitting
18. DMU Kinematics

Se compone de:

- 1. Diseño**
- 2. Sólidos**
- 3. Superficies**
- 4. Ensamblaje**
- 5. Ergonomics**
- 6. Foto Estudio**
- 7. Edición de Catalogos**
- 8. Librería de Materiales**
- 9. Impresión de Planos**
- 10. Montajes automáticos**
- 11. Simulación de movimiento**

CATIA CAM + CAE

200 horas Curso online (adaptables)

Incluye los módulos o Workbenches:

01. DMU Fitting
02. DMU Kinematics
03. Generative Sheet Metal Design
04. Sheet Metal Design
05. Sheet Metal Production
06. Aerospace Sheet Metal Design
07. Generative Structural Analysis (EF)
08. Advanced Meshing Tools
09. Knowledge Advisor
10. Machining Prismatic
11. Machining Milling (Fresado)
12. Machining Lathe (Torneado)
14. Machining Advanced
15. NC MachineTool Builder
16. NC Machine Tool Simulation

Se compone de:

- 1. Montajes automáticos**
- 2. Detección de fallos**
- 3. Simulaciones**
- 4. Sheet Metal**
- 5. Elemento Finito**
- 6. Mecanizado**

CATIA Experto

200 horas curso online (adaptables)

Incluye los módulos o Workbenches:

01. Wireframe
02. Generative Shape Design
07. Core & Cavity Design
04. Sketch Tracer
05. Free Style
06. Imagine & Shape
07. Automotive Class A
08. Icem Shape Design AeroExpert
09. STL Rapid Prototyping
10. Digitized Shape Editor
11. Quick Surface Reconstruction
12. DMU Optimizer
13. Healing assistant
14. Composites
15. Composites Grid Design

Se compone de:

1. Superficies avanzadas
2. Composites
3. Circuitos Eléctricos
4. Cableado Eléctrico
5. Tuberías Rígidas
6. Tubos Flexibles
7. Conducciones de aire
8. Moldes
9. Soldadura
10. Estructuras

CATIA Especialista

200 horas curso online (adaptables)

Incluye los módulos o Workbenches:

01. Electrical Circuit Board
02. Electrical Harness
03. Piping
04. Tubing
05. HVAC
06. AEC Plant
07. Functional Molded Part
08. Mold Tooling Design
09. Weld Design
10. Structure

Se compone de:

1. Circuitos Eléctricos
2. Cableado Eléctrico
3. Tuberías Rígidas
4. Tubos Flexibles
5. Conducciones de aire
6. Moldes
7. Soldaduras
8. Estructuras
9. Planta de fábrica

Master de CATIA Flexible de 400 ó 600 horas online
Contenido a elegir 30 ó 40 Workbenches de la lista

Incluye los módulos o Workbenches:

01. Sketcher
02. Part Design
03. Knowledge
04. Functional Tolerancing & Annotation
05. Wireframe
06. Generative Shape Design
07. Core & Cavity Design
08. Sketch Tracer
09. Free Style
10. Imagine & Shape
11. Automotive Class A
12. ICEM Shape Design AeroExpert
13. STL Rapid Prototyping
14. Digitized Shape Editor
15. Quick Surface Reconstruction
16. DMU Optimizer
17. Ergonomics
18. Photo Studio
19. Real time Rendering
20. Product Structure
21. Assembly
22. Space Analysis
23. Product Tolerancing & Annotation
24. DMU Navigator
25. Catalog Editor
26. Material Library
27. Drafting
28. DMU Fitting
29. DMU Kinematics
30. Generative Sheet Metal Design
31. Sheet Metal Design
32. Sheet Metal Production
33. Aerospace Sheet Metal Design
34. Generative Structural Analysis (EF)
35. Advanced Meshing Tools
36. Knowledge Advisor
37. Machining Prismatic
38. Machining Milling (Fresado)
39. Machining Lathe (Torneado)
40. Machining Advanced
41. NC MachineTool Builder
42. NC Machine Tool Simulation
43. Composites
44. Composites Grid Design
45. Electrical Circuit Board
46. Electrical Harness
47. Piping
48. Tubing
49. HVAC
50. AEC Plant
51. Funtional Molded Part
52. Mold Tooling Design
53. Healing Assistant
54. Weld Design
55. Structure

Se compone de:

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7. Edición de Catalogos
8. Librería de Materiales
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11. Detección de fallos
12. Simulaciones
13. Chapa
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20. Tubos Flexibles
21. Conducciones de aire
22. Moldes
23. Soldadura
24. Estructuras
25. Planta de fábrica
26. Coordenadas desde Excel
27. Nube de Puntos
28. Reverse Engineering
29. CATIA V6 actualización

Máster de CATIA 800 horas curso online

55 Workbenches, más de 420 ejercicios, +5.000 páginas a color (Manuales, Lecciones, etc.)

Incluye los módulos o Workbenches:

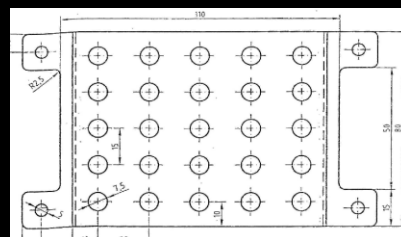
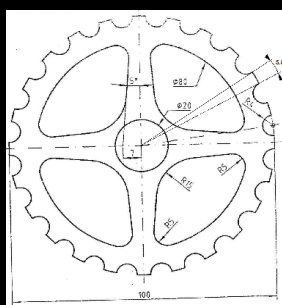
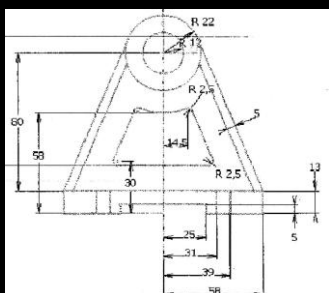
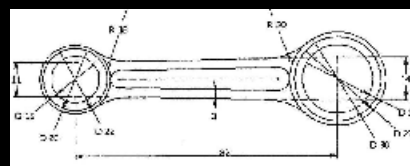
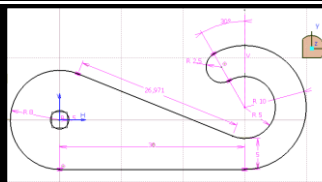
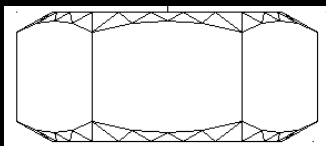
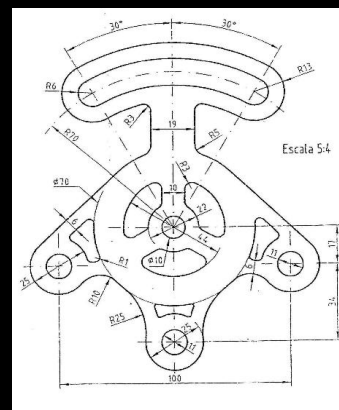
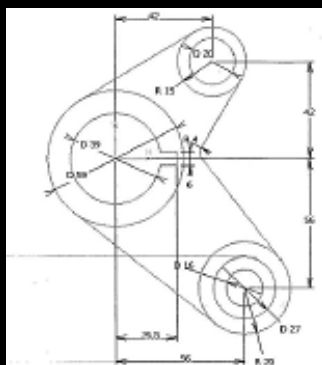
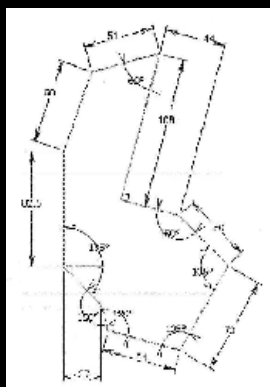
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52. Mold Tooling Design
53. Healing Assistant
54. Weld Design
55. Structure

Se compone de:

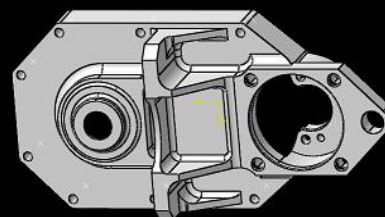
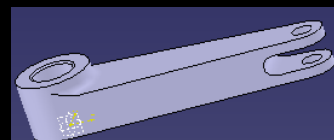
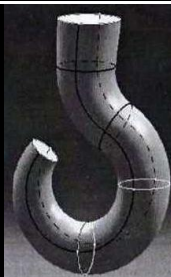
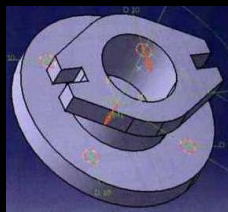
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25. Planta de fábrica
26. Coordenadas desde Excel
27. Nube de Puntos
28. Reverse Engineering

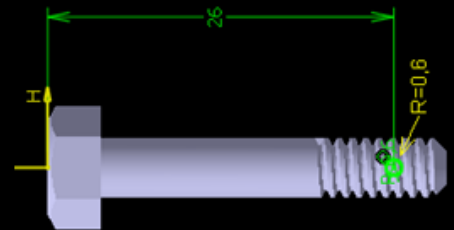
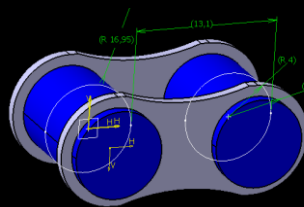
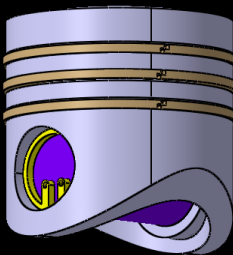
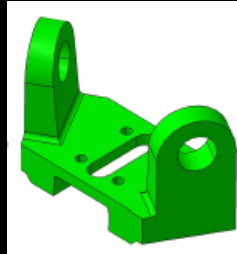
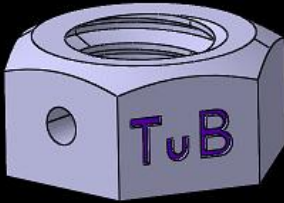
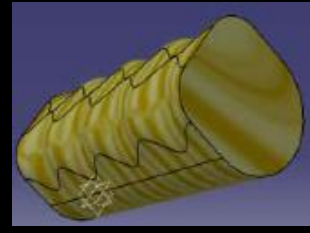
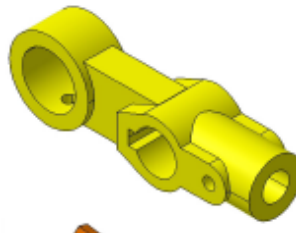
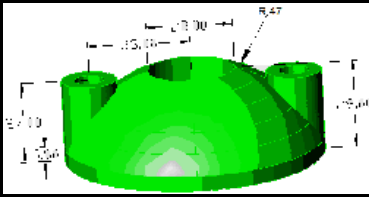
CATIA V6 actualización

Ejercicios Sketcher

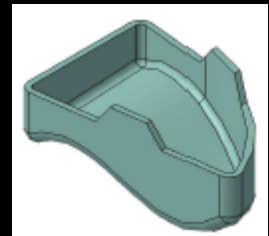
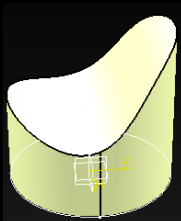
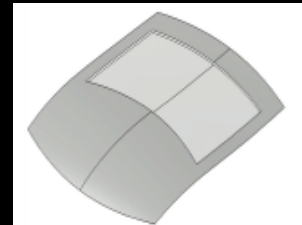
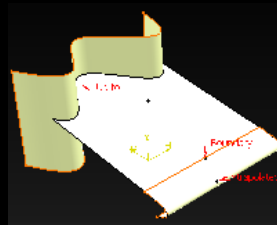


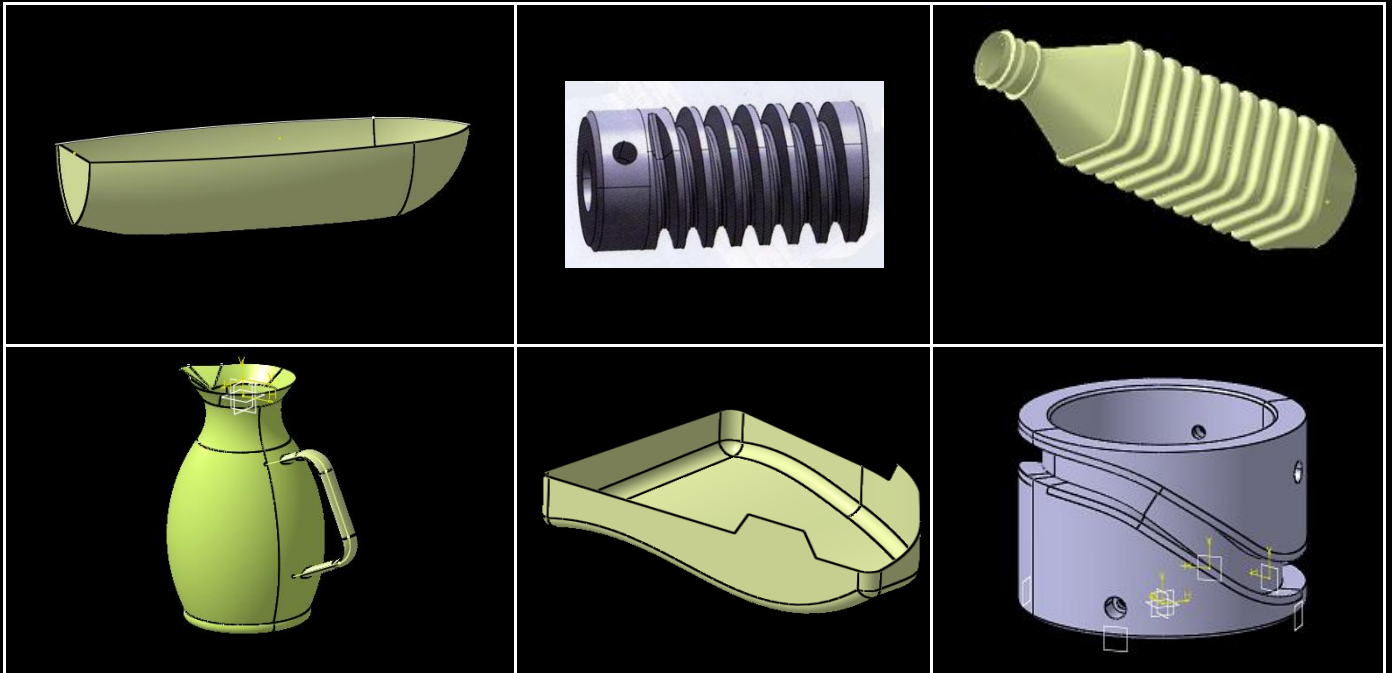
Ejercicios PartDesign





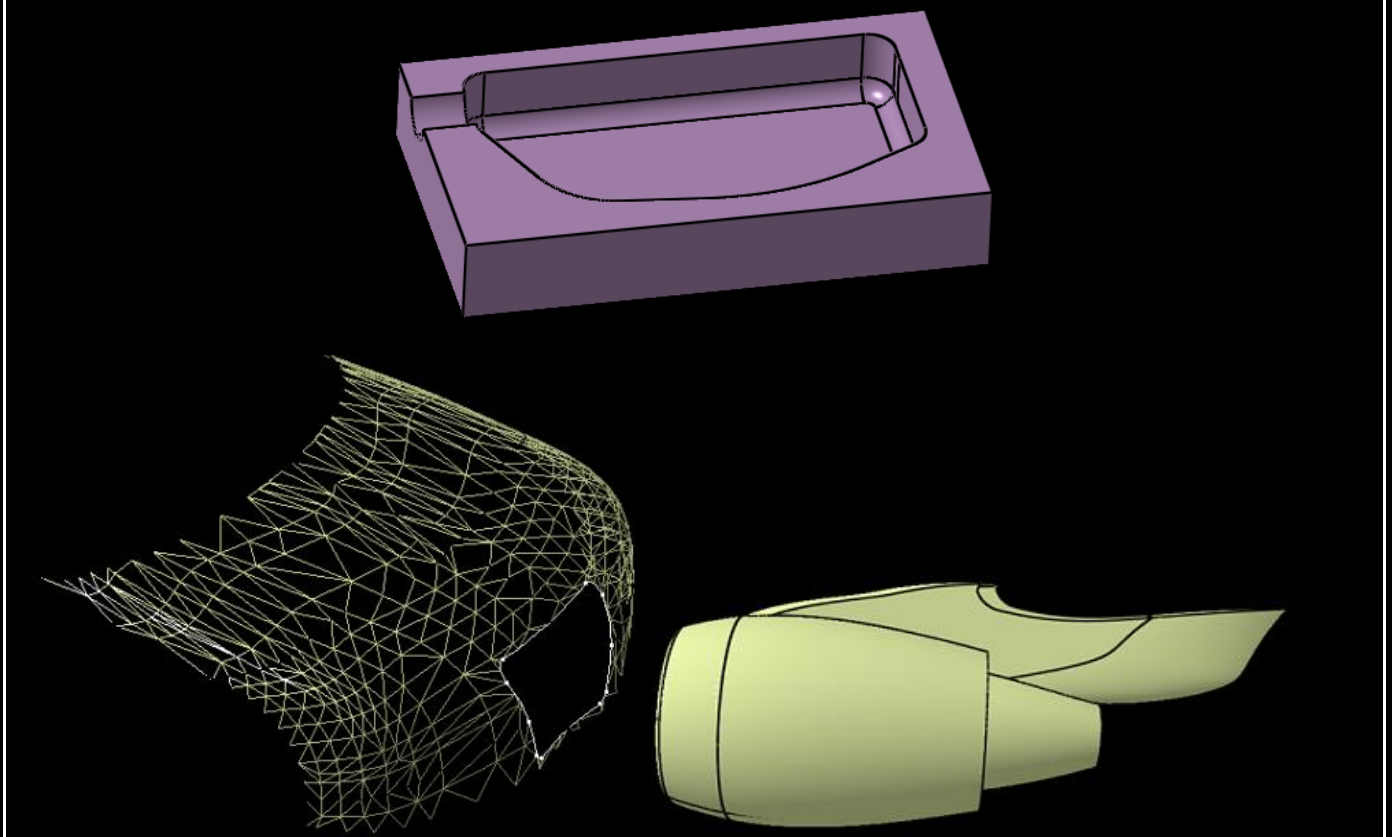
Ejercicios de superficies





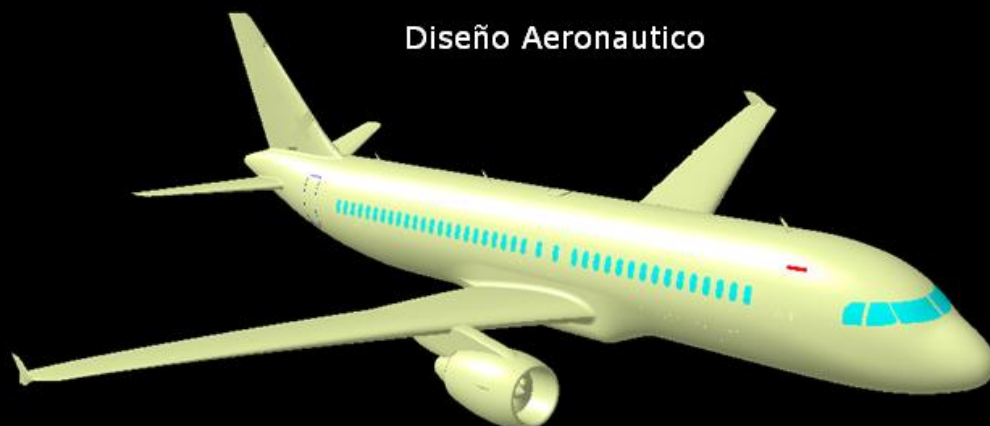
Reverse Engineering

Superficies por Tabla de Excel, por Puntos, STL, IGS, STP, Model, desde Scanner 3D

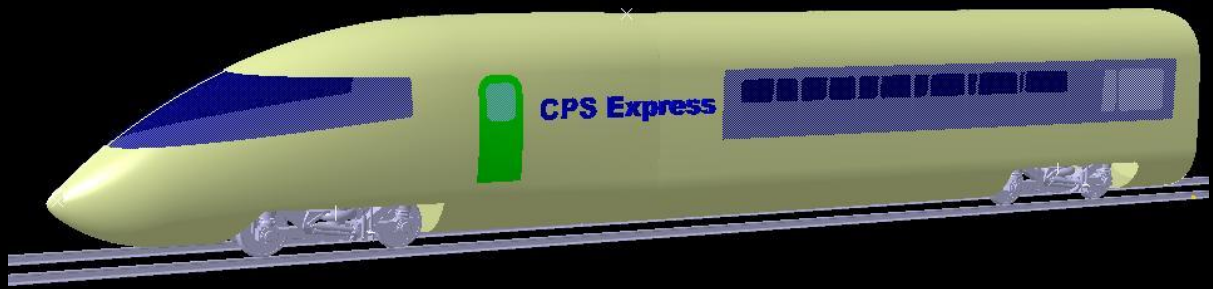




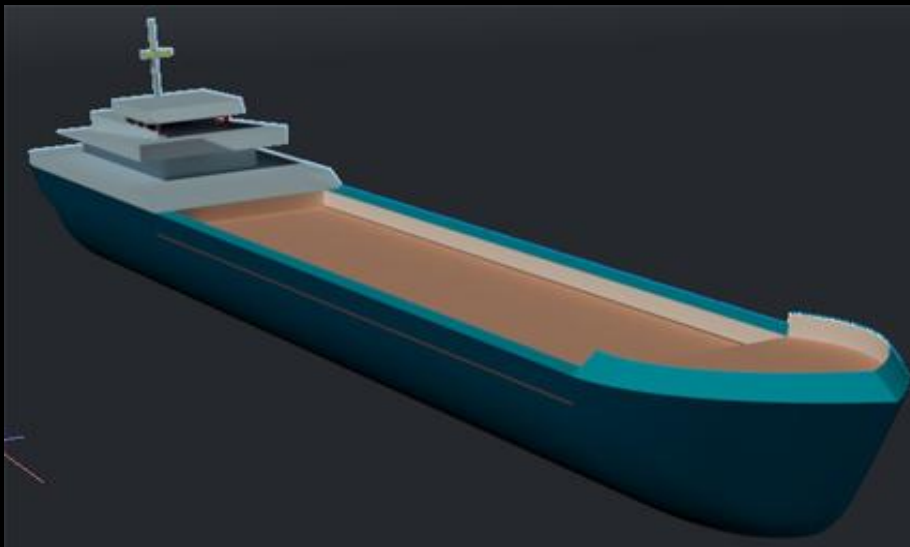
Diseño Aeronáutico con maquetas E = 1:1



Diseño Ferroviario

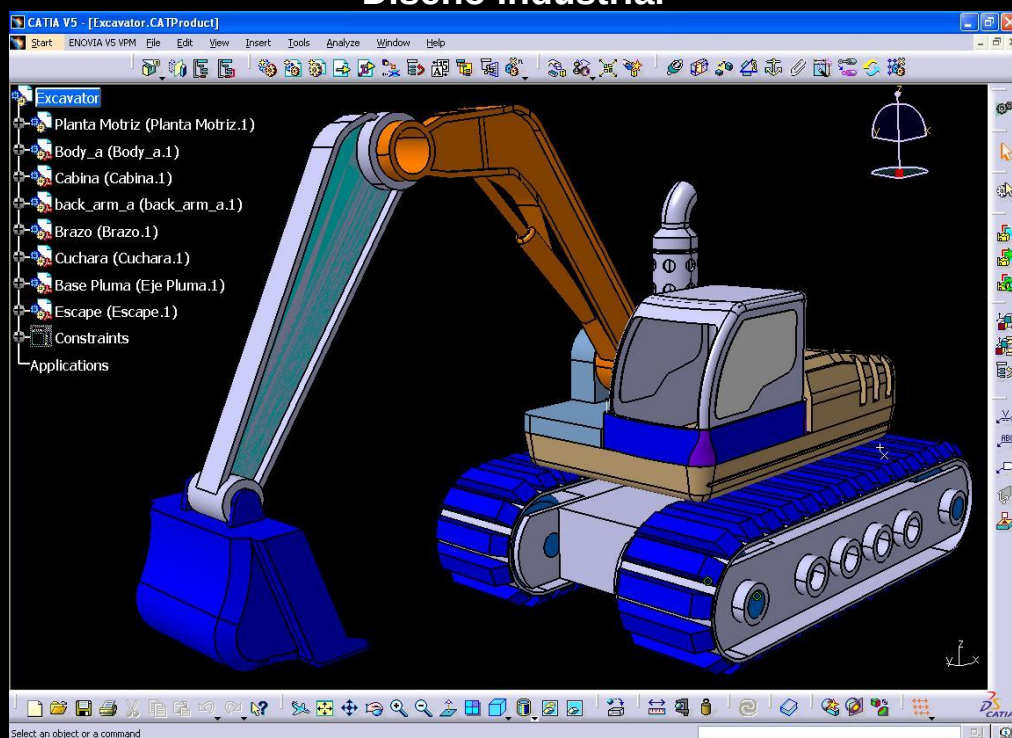


Diseño Nautico y Naval



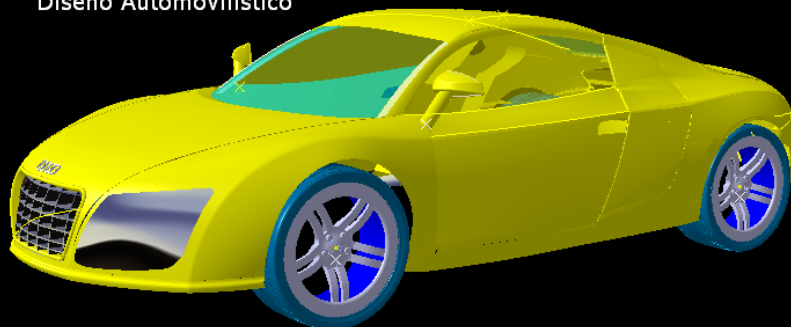


Diseño Industrial

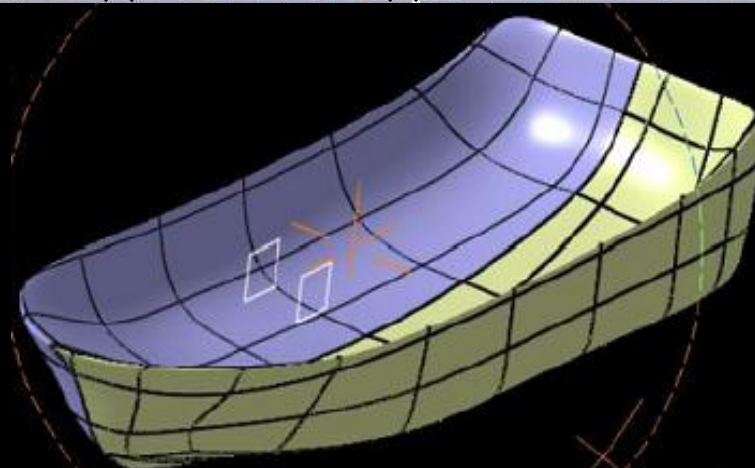
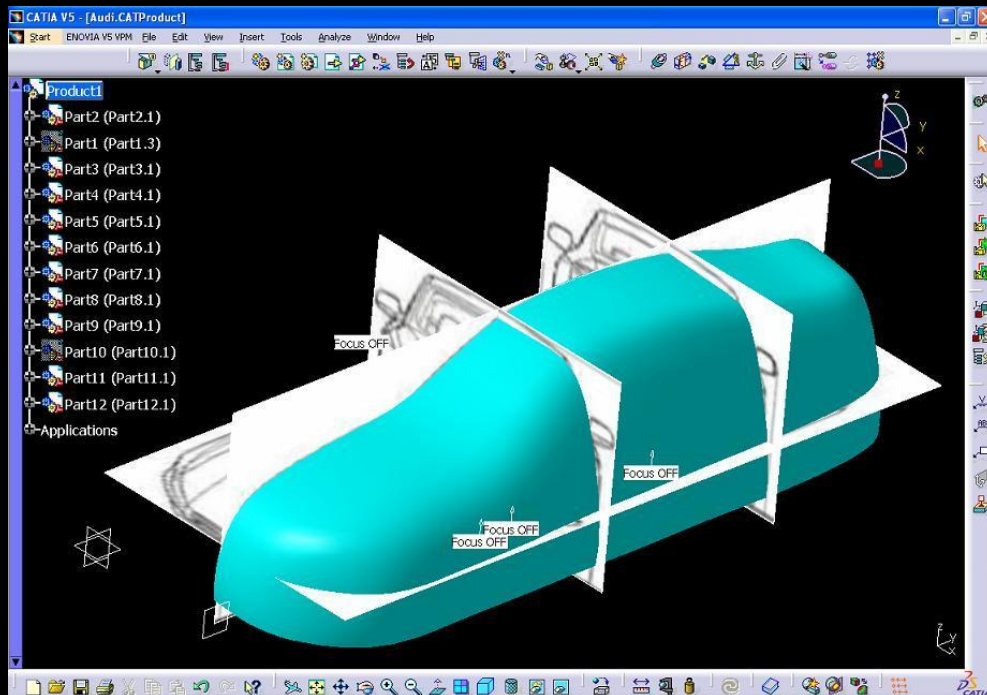
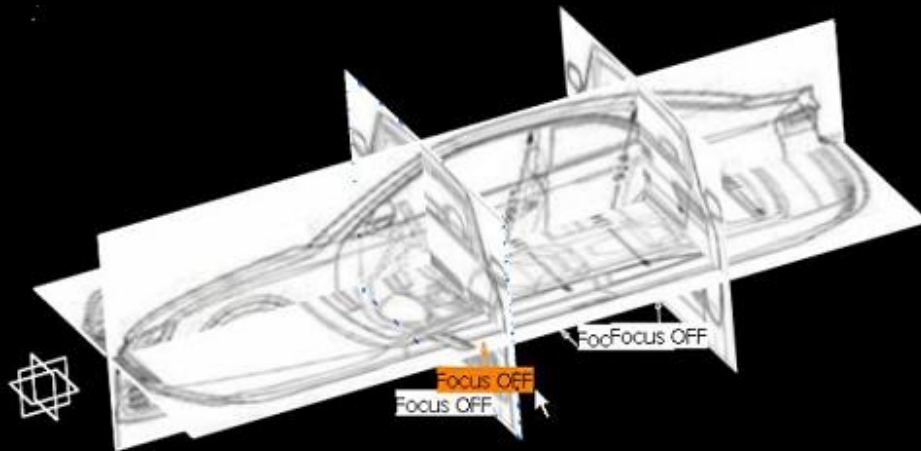


Diseño de maquetas de Automovilismo

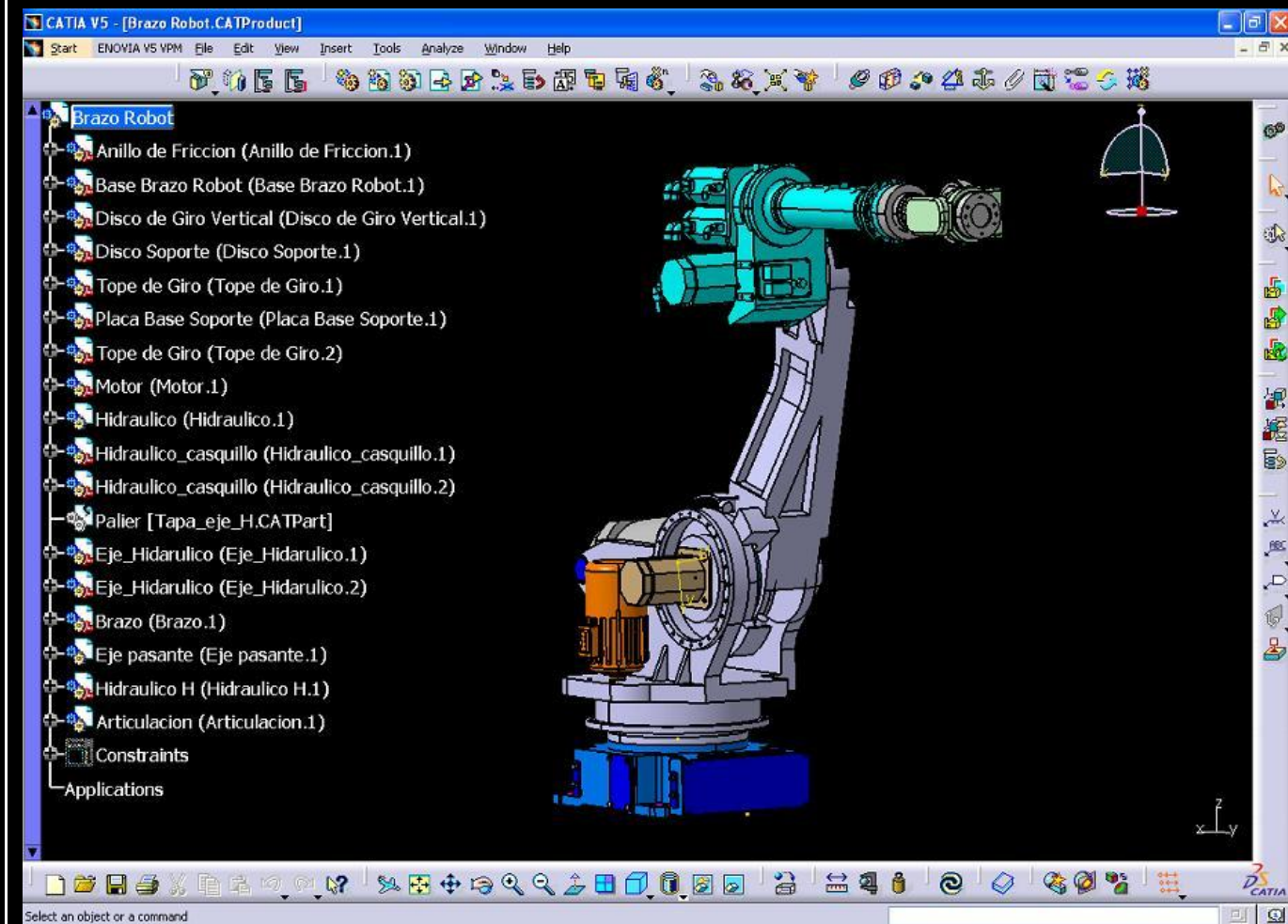
Diseño Automovilístico



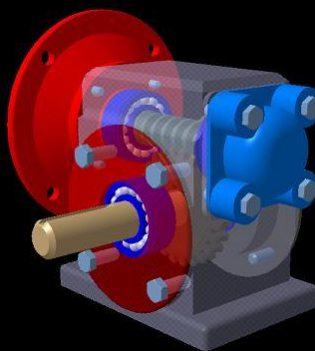
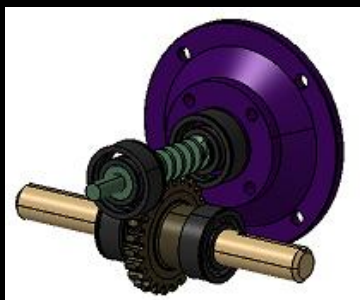
Superficies avanzadas

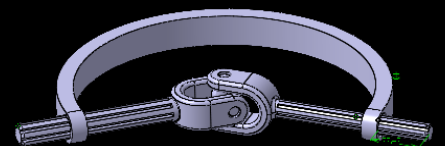
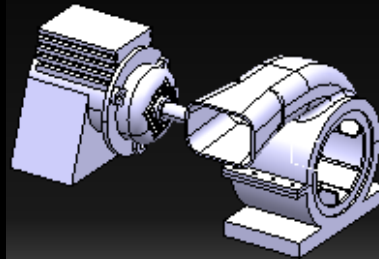
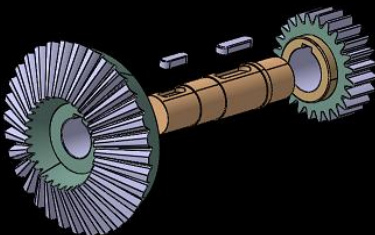
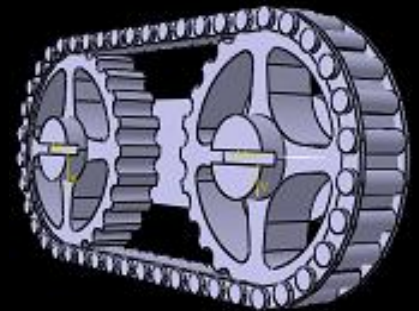
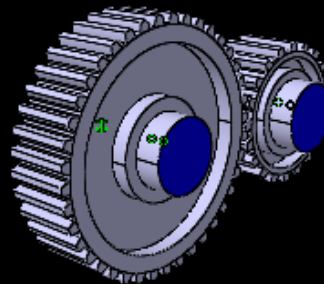
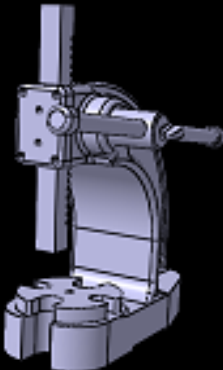
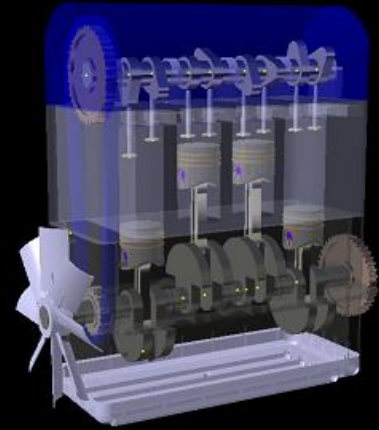
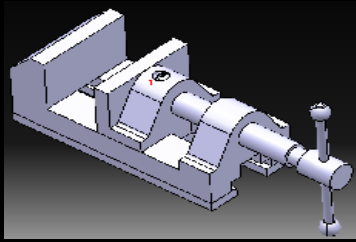


Diseño Robots de Fábrica

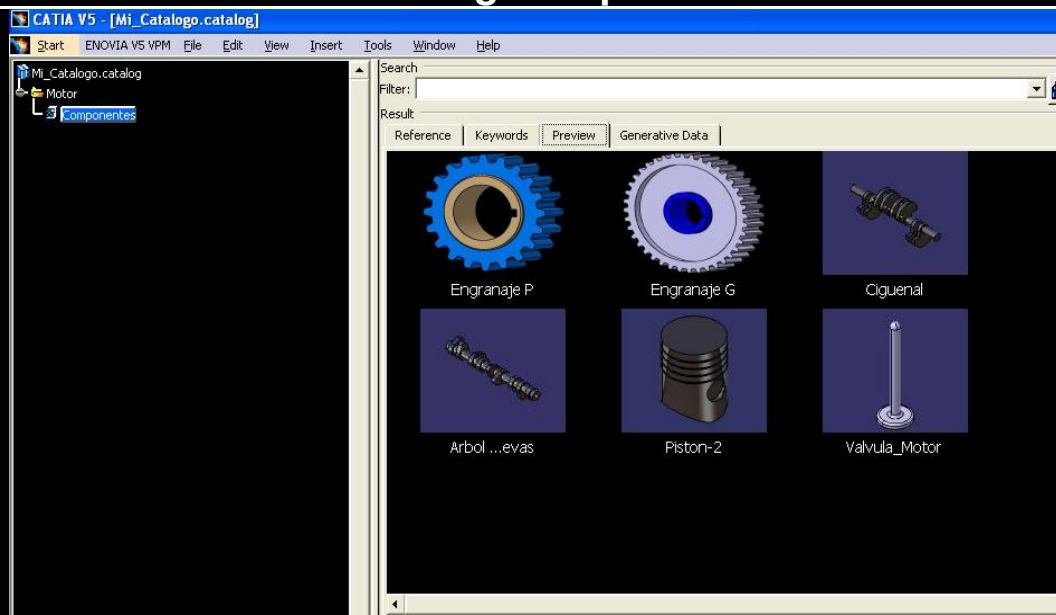


Ejercicios Assembly Design, Fitting y Kinematics

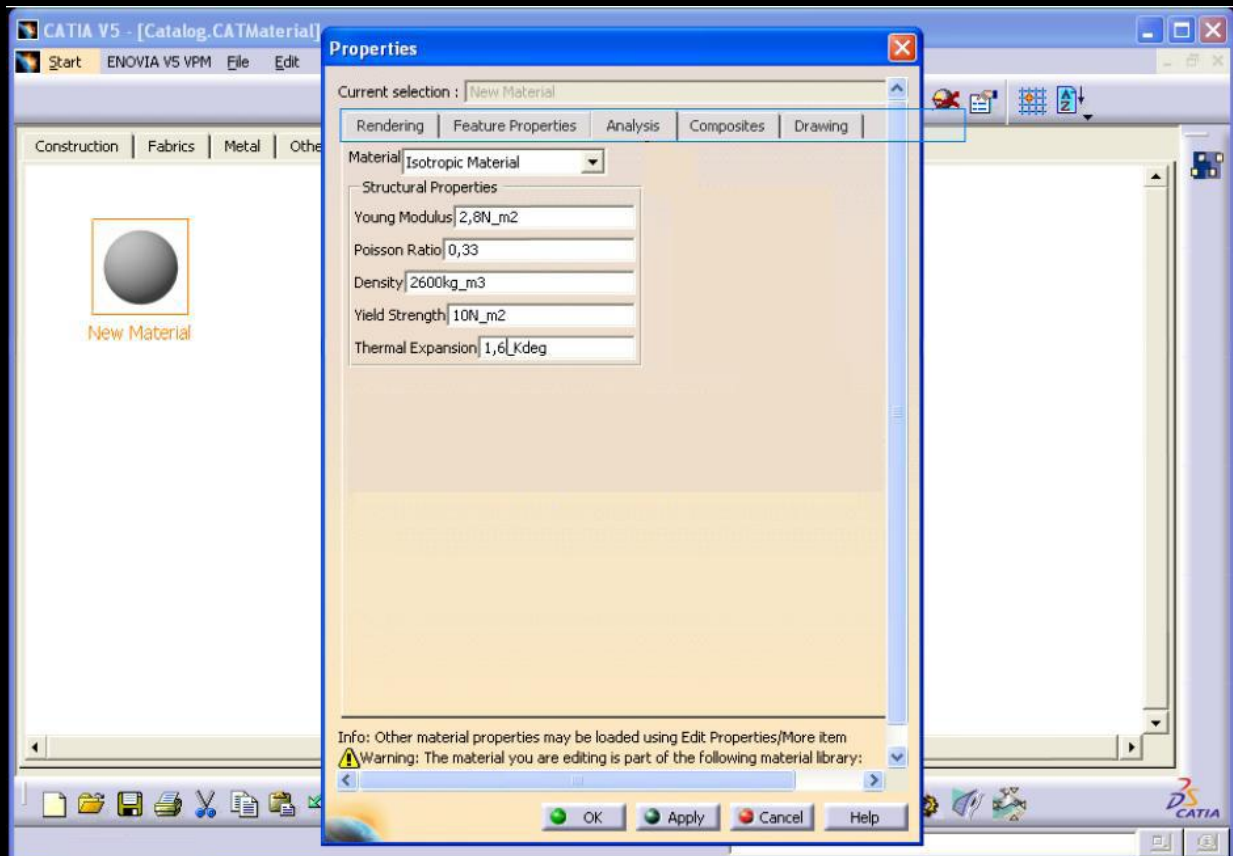




Catálogo de piezas



Librería de Materiales



Generative, Aerospace, Production, Design – Sheet Metal

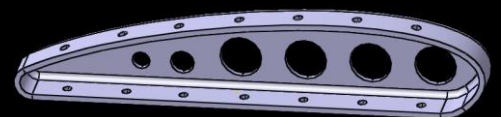
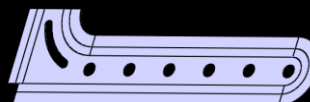
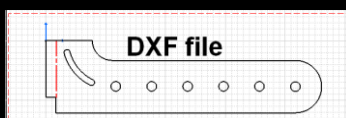
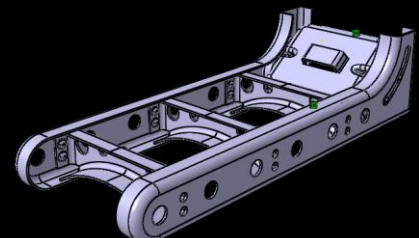
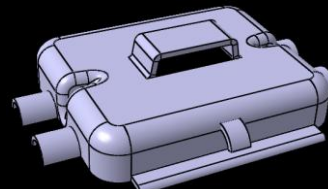
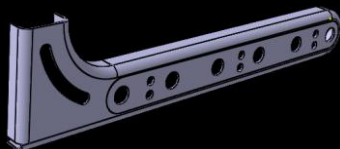
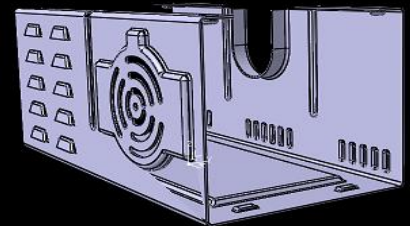
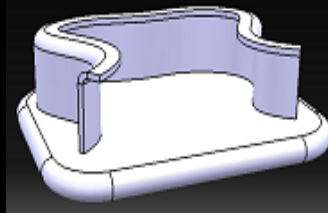
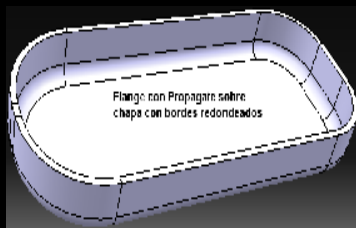
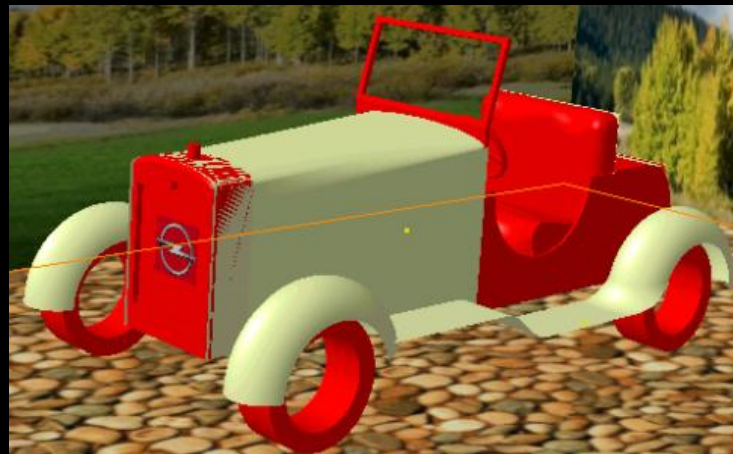
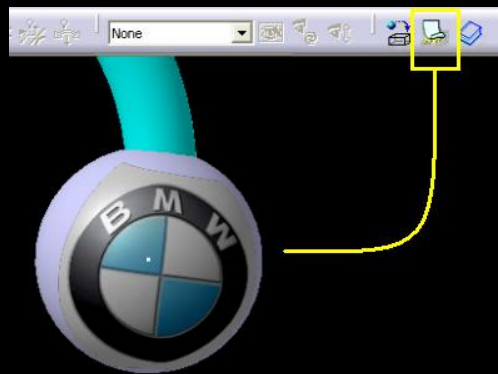
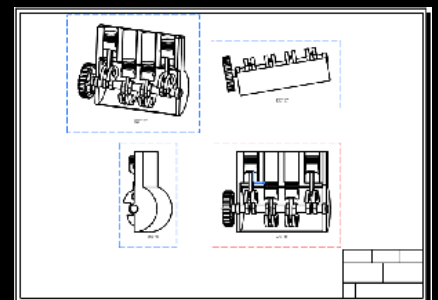
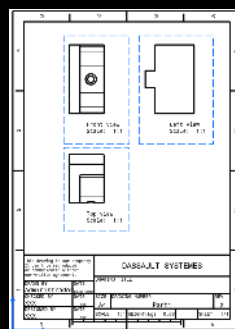
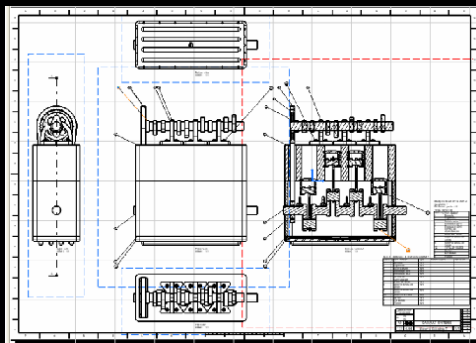


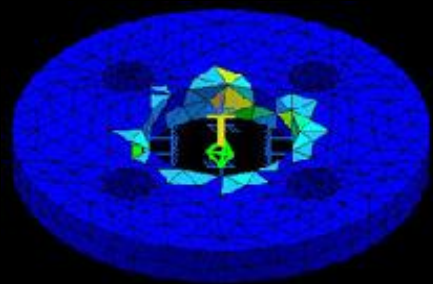
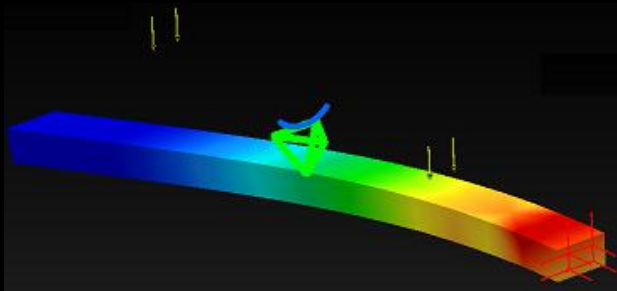
Photo Studio & Real Time Rendering



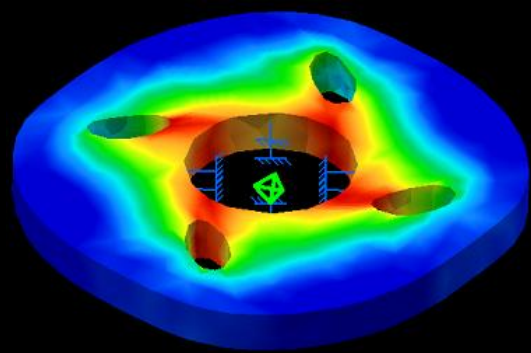
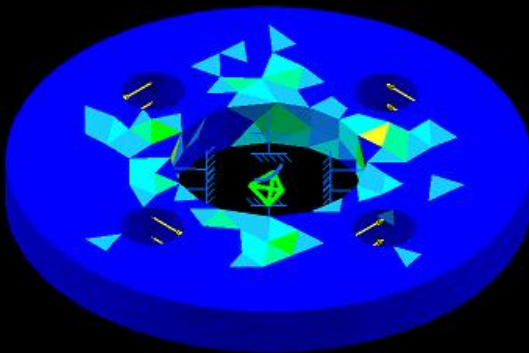
Ejercicios Drafting



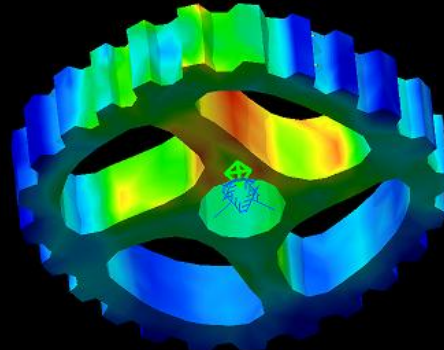
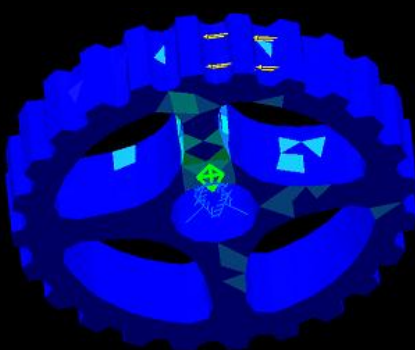
Ejercicios Generative Structural Analysis (Elemento Finito)



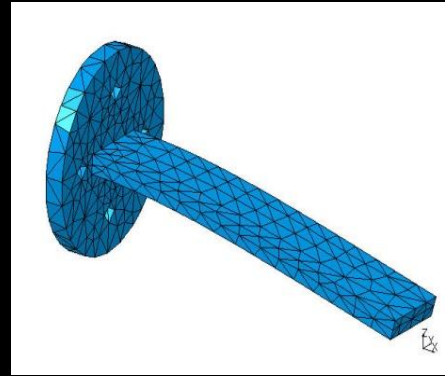
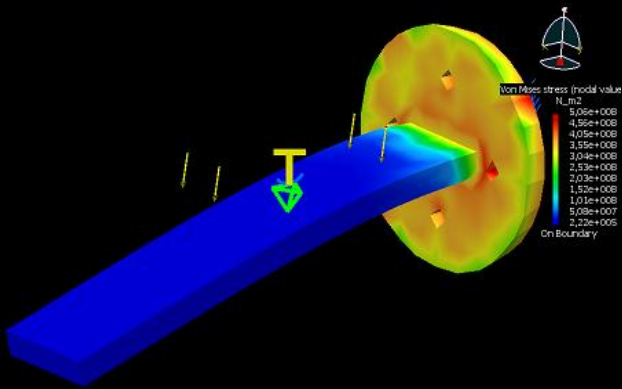
Barra deformada por carga y Disco deformado por calor



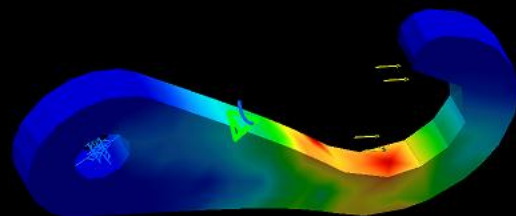
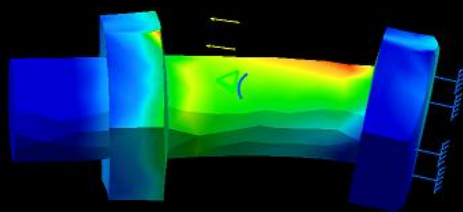
Deformación de Disco por aplicación de Fuerza tangencial a los 4 taladros

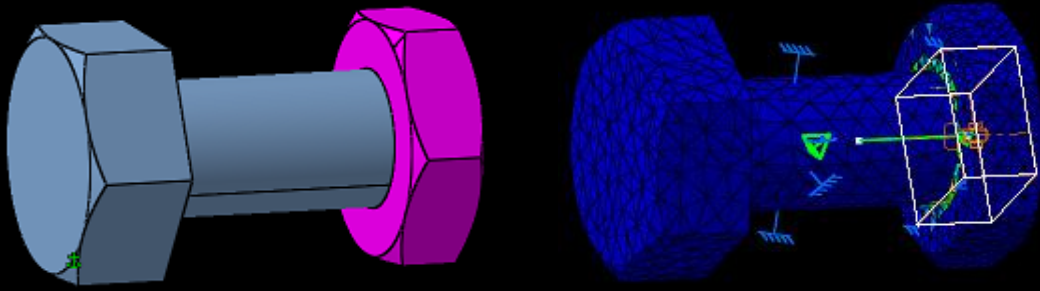


Deformación por engranaje a dos dientes



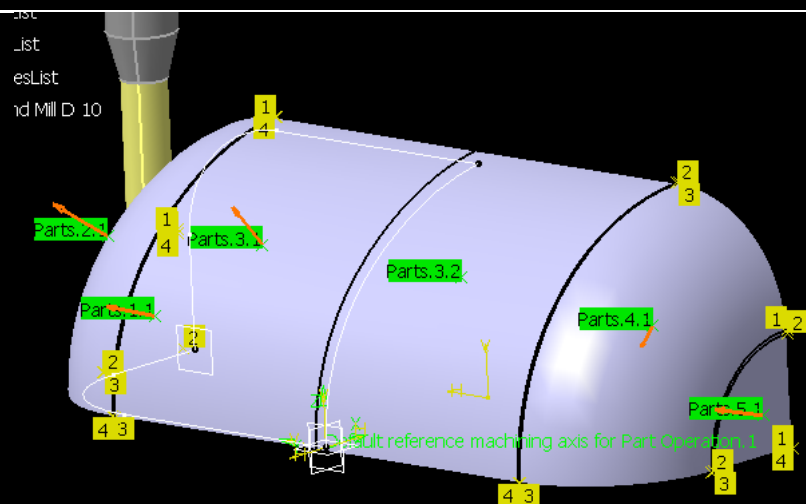
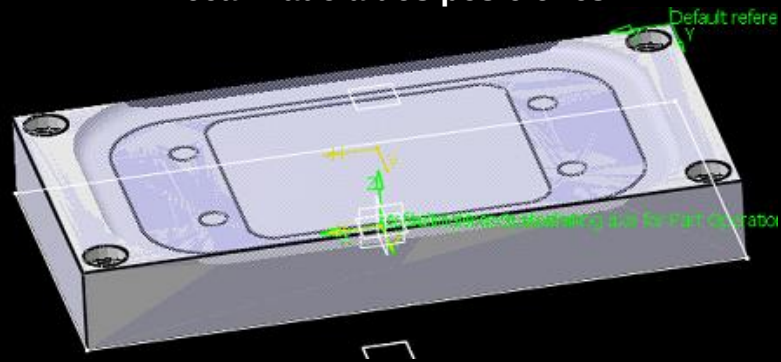
Dilatación por elevación de Temperatura y 1000KN de carga Distribuida

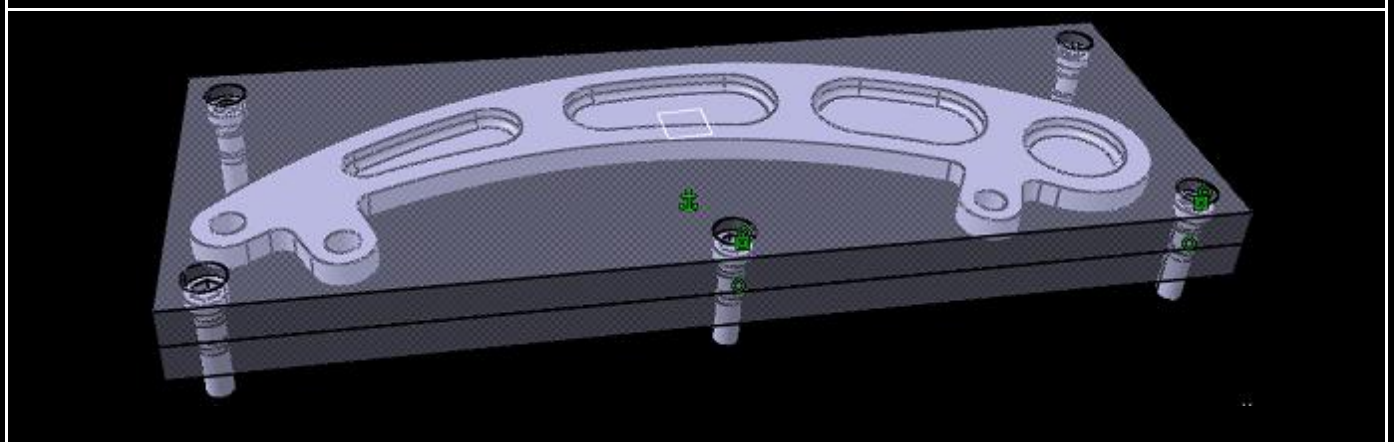
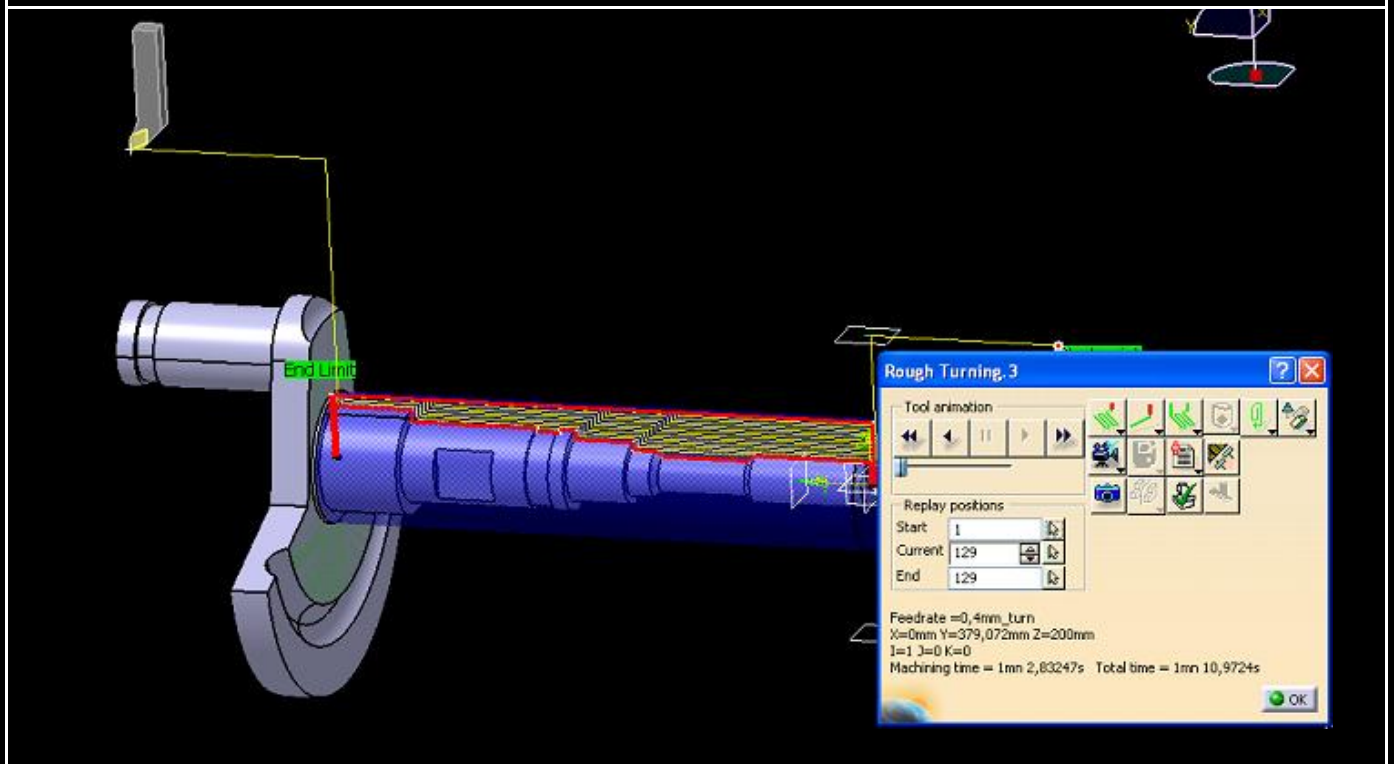
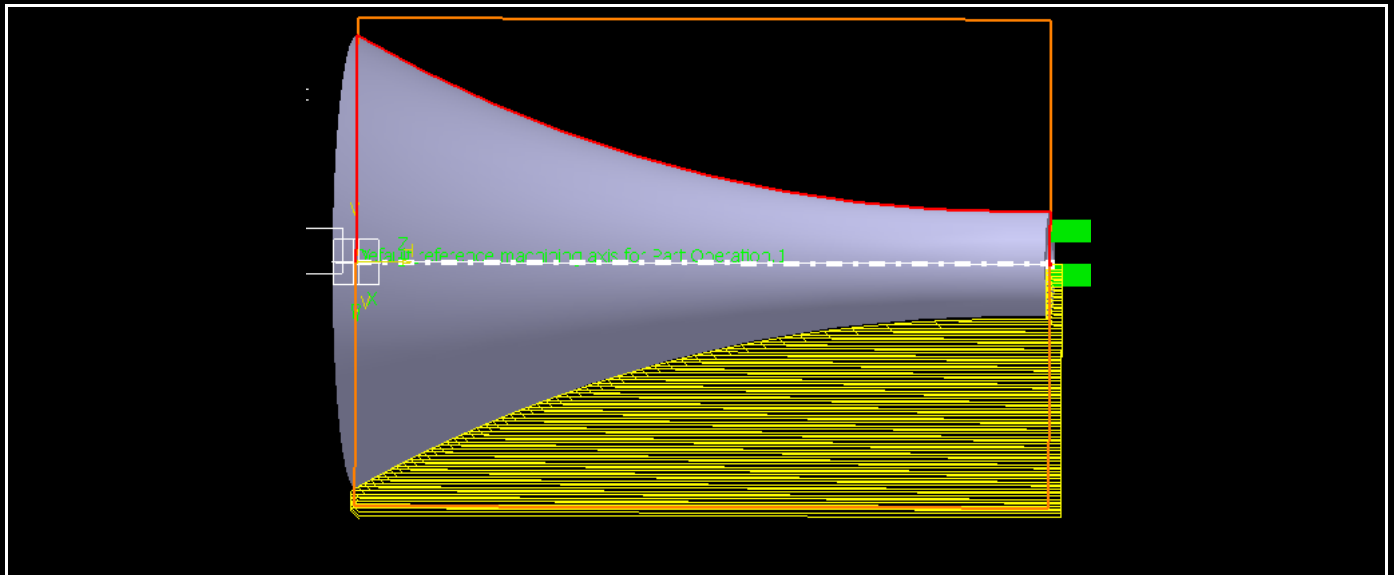


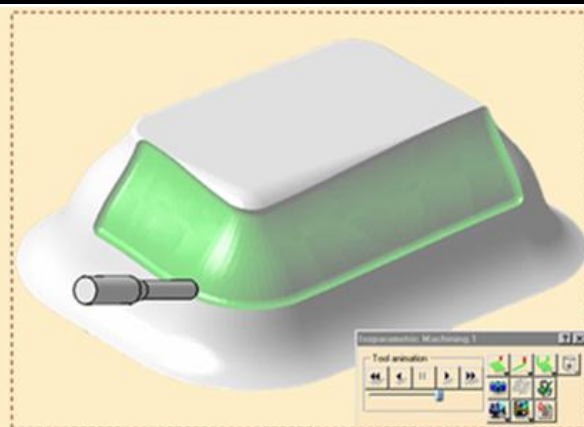
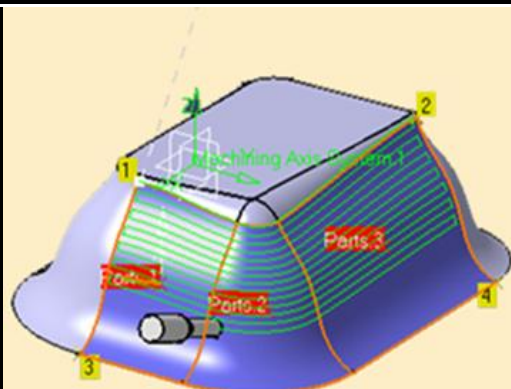


MECANIZADO(Machining)

Mecanizado a dos posiciones







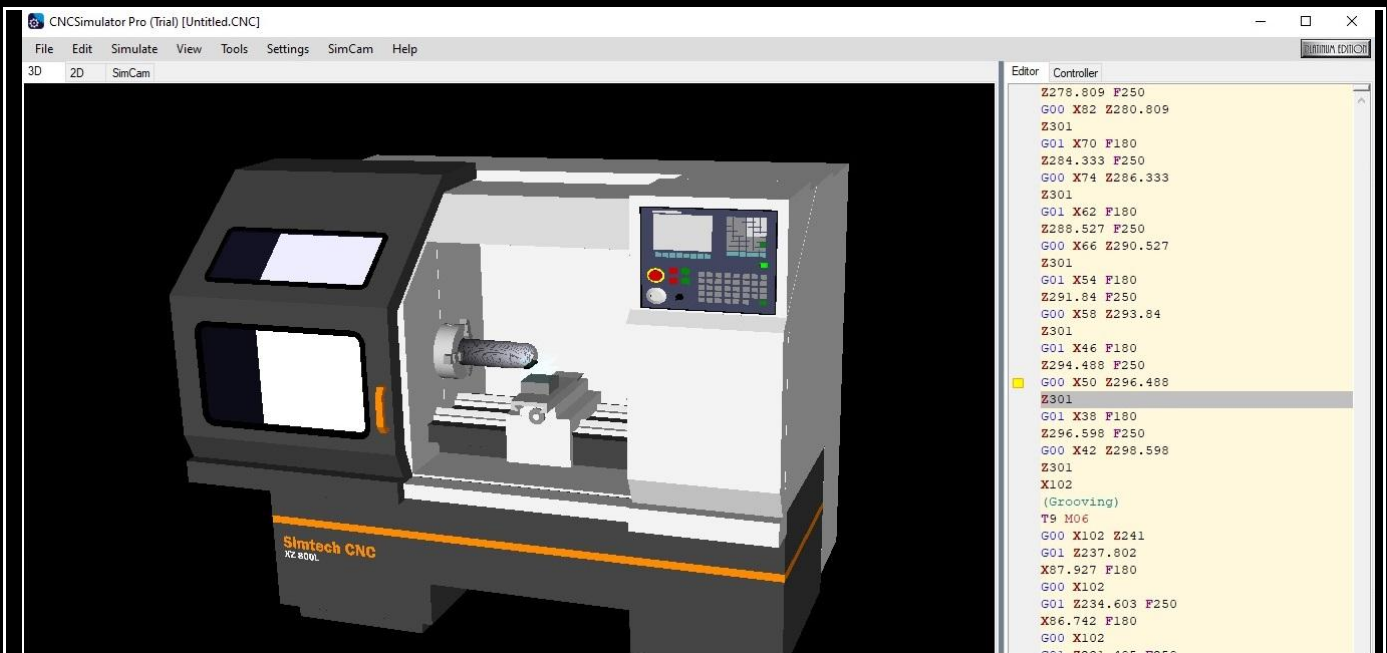
Mecanizado-1_Manufacturing_Program_1.CATNCCode - Bloc de notas

Archivo Edición Formato Ver Ayuda

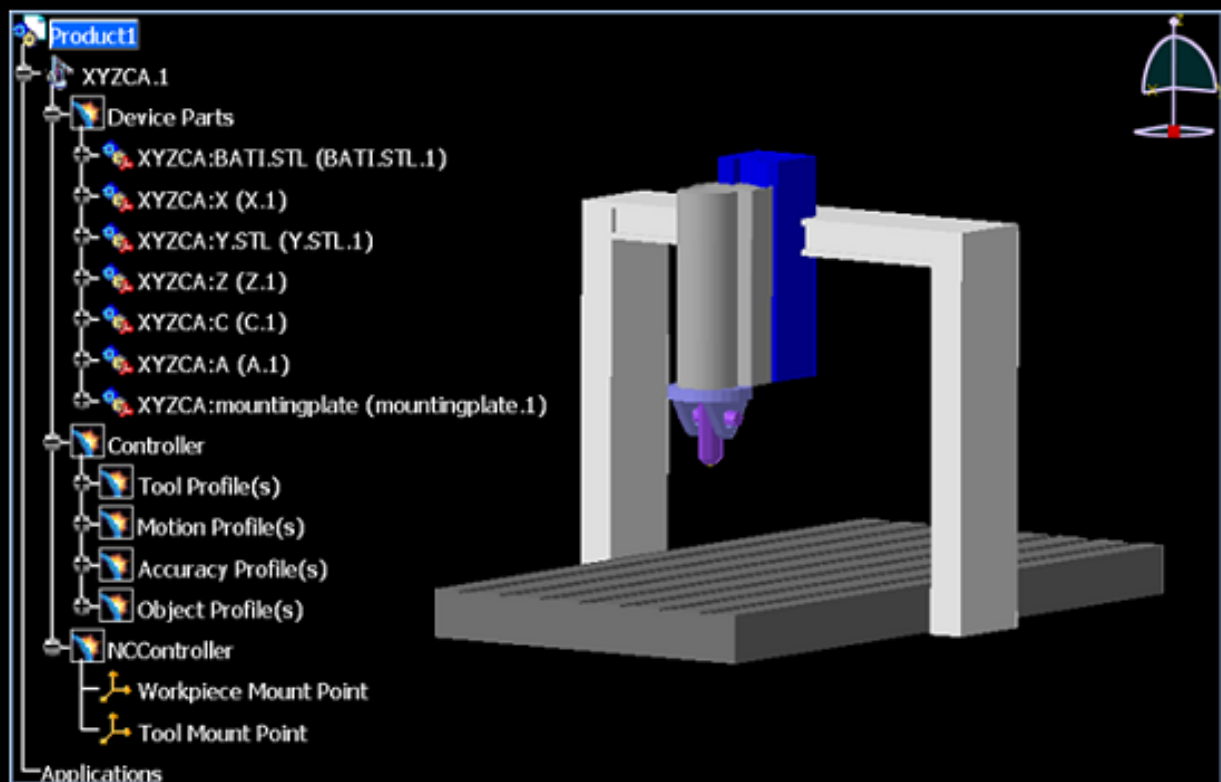
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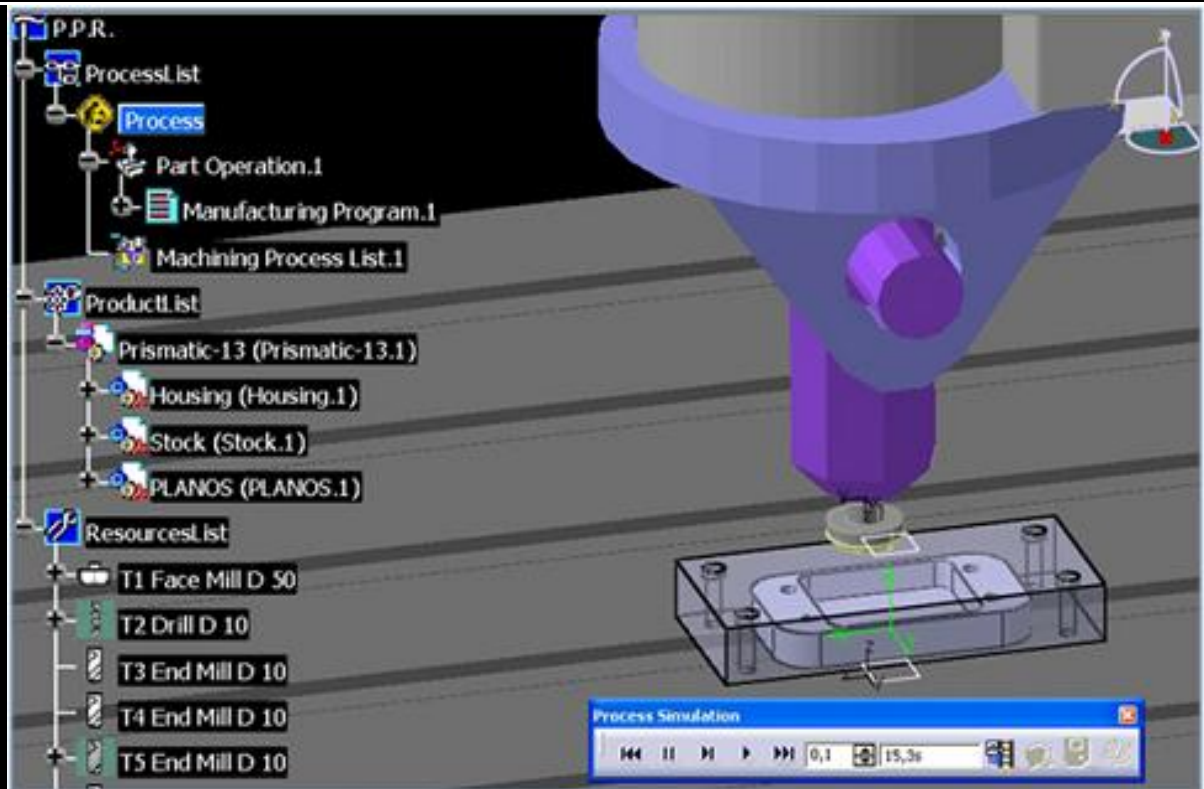
;=====
;===  cPost Standard PP for SINUMERIK 840 D  ===
;=====
N10 G0 G90 G40
N20 G40 M8
N30 G17
N40 ;===== TOOL CHANGE =====
N50 ; DESC :
N60 ;=====
N70 T1 M06
N80 D1
N90 G0 G90 G40 G17
N100 F0 S0
N110 G64 SOFT
N120 S70 M3
N130 G1 X111.892 Y0 Z-5 F300 G94
N140 Z-6
N150 X0 F1000
N160 Y120
N170 X230
N180 Y0
N190 X111.892
N200 Y12.5
N210 Y25
N220 X25
N230 Y95
N240 X205
N250 Y25
N260 X111.892
    
```

El archivo CATNCCode es el que interesa para enviar a la Máquina de control numérico, y se debe abrir y en algunos casos modificar para adaptarlo a las diferentes Máquinas, según las especificaciones de estas.

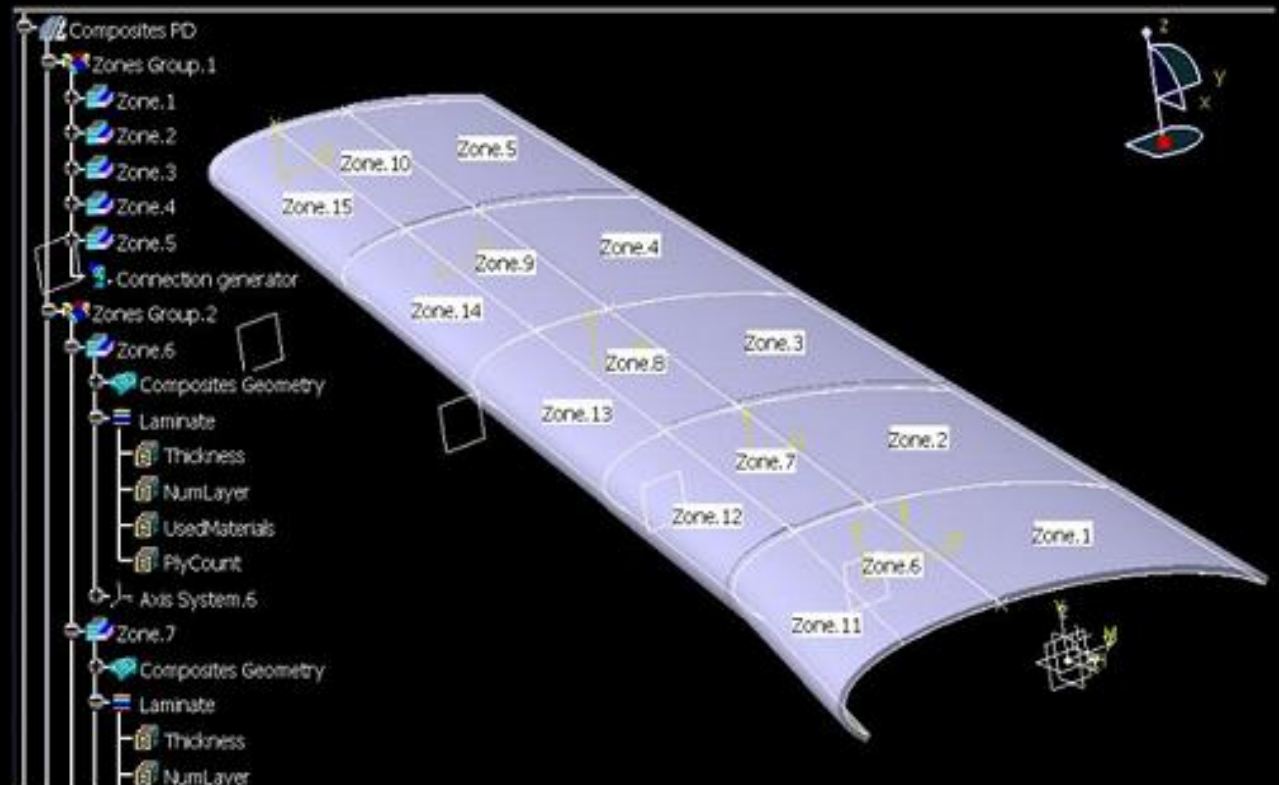


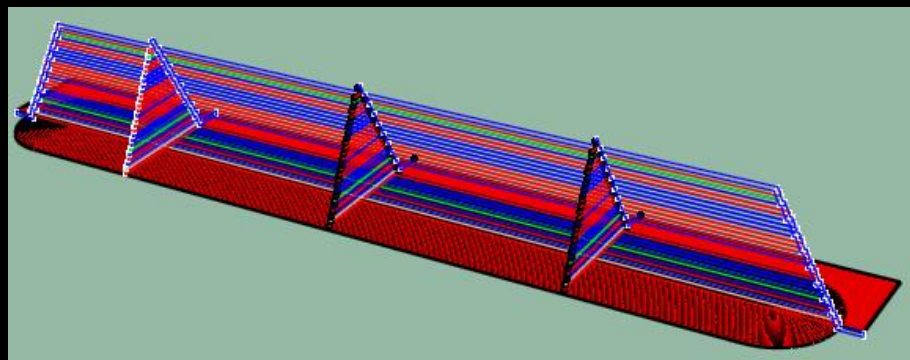
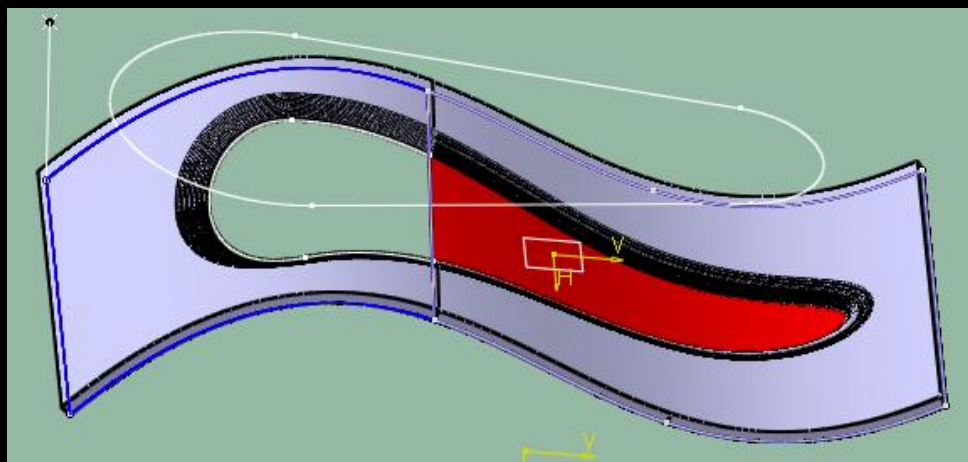
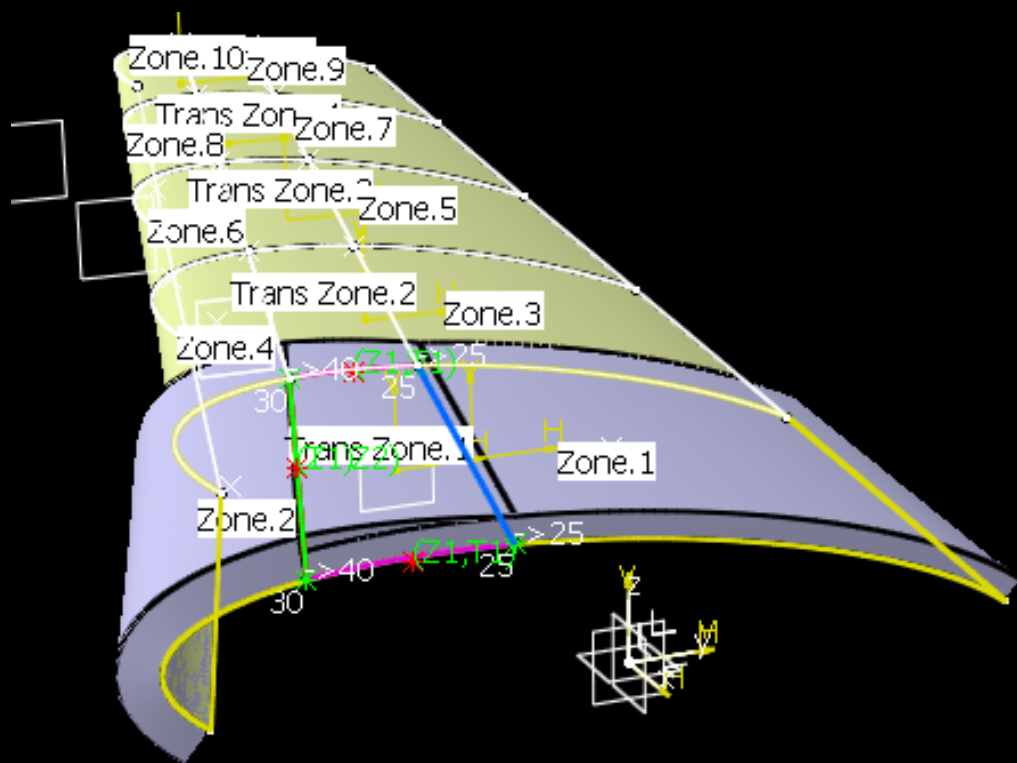
Simulación de Mecanizado con Fresadora

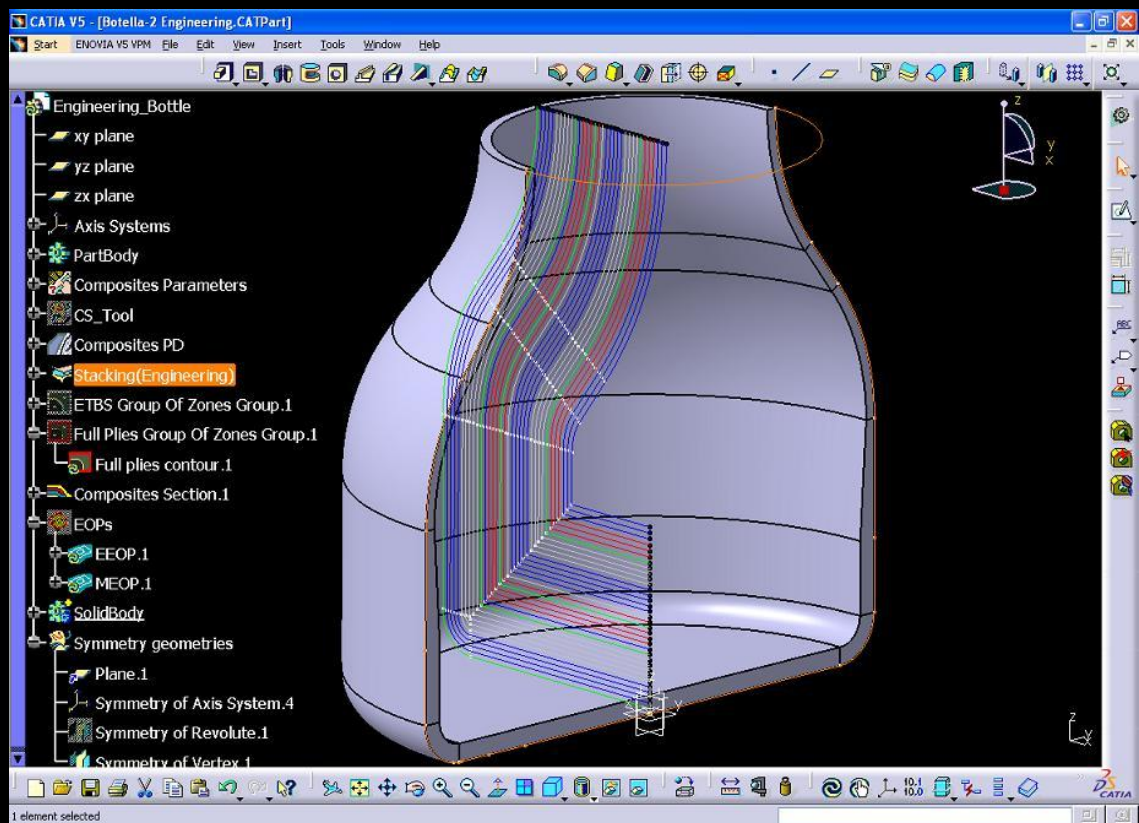
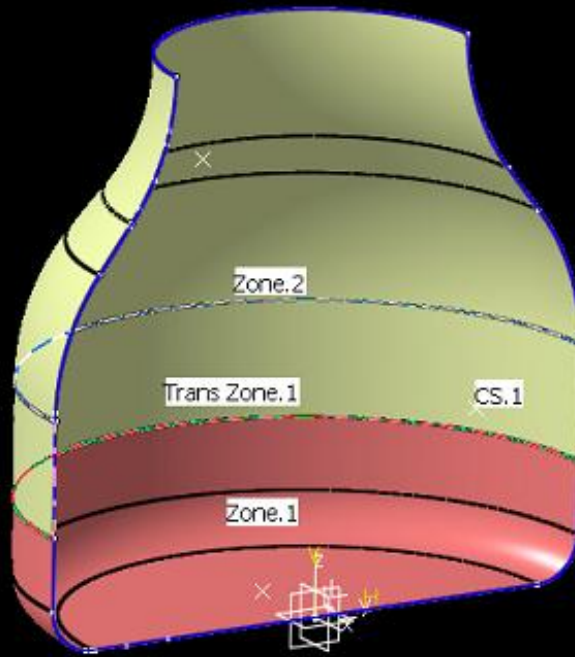




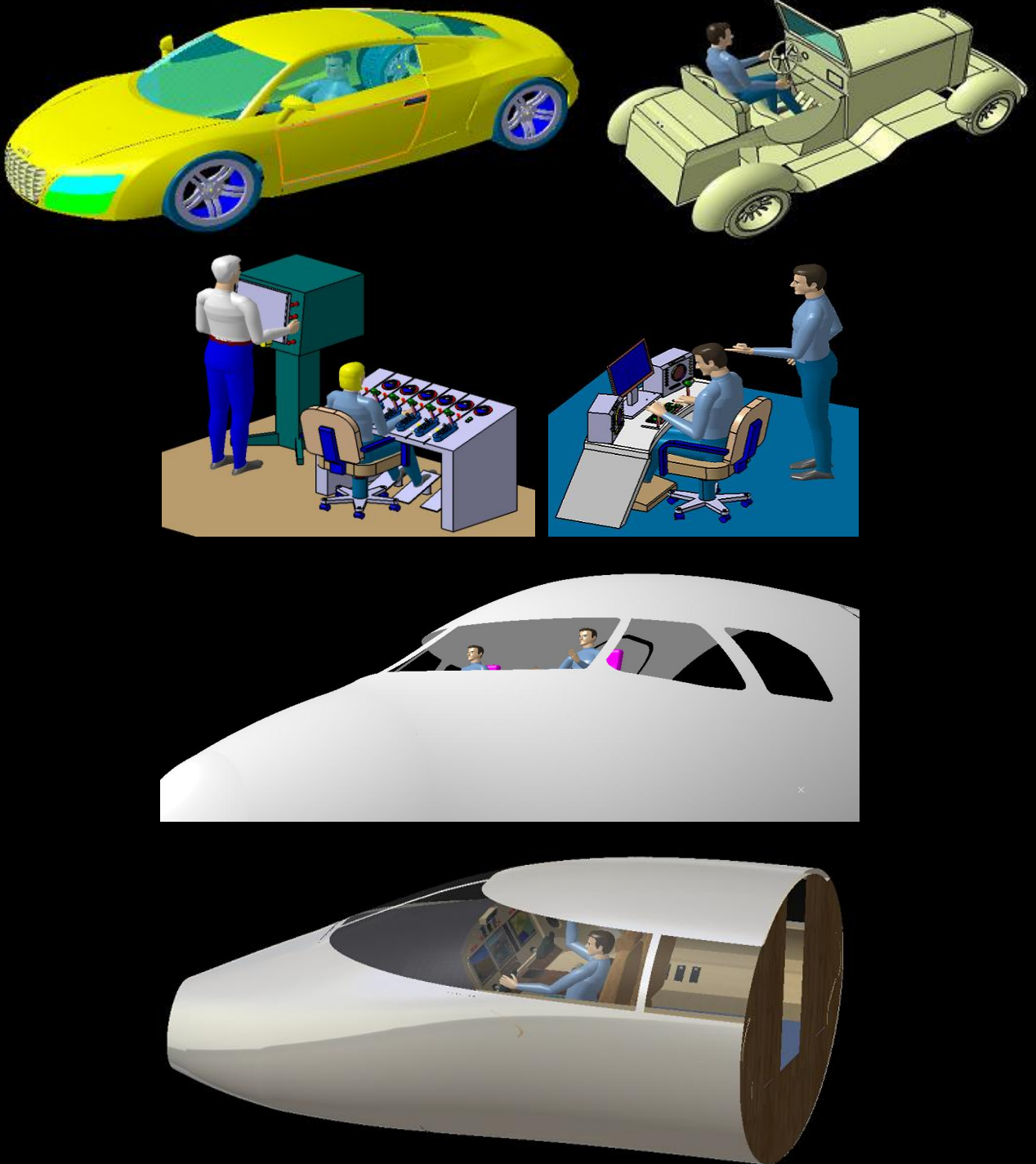
COMPOSITES







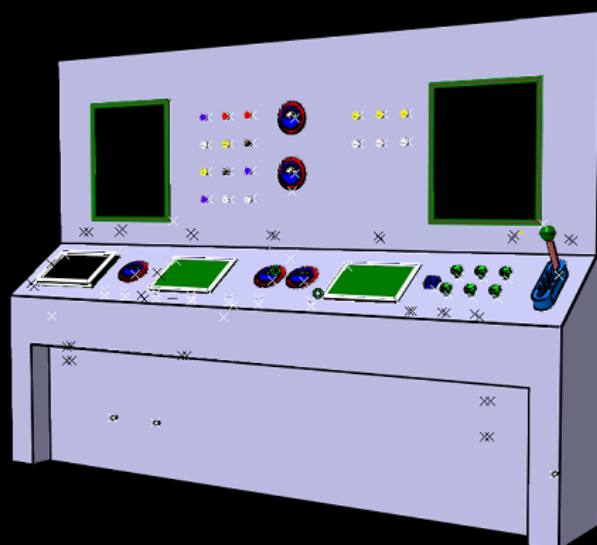
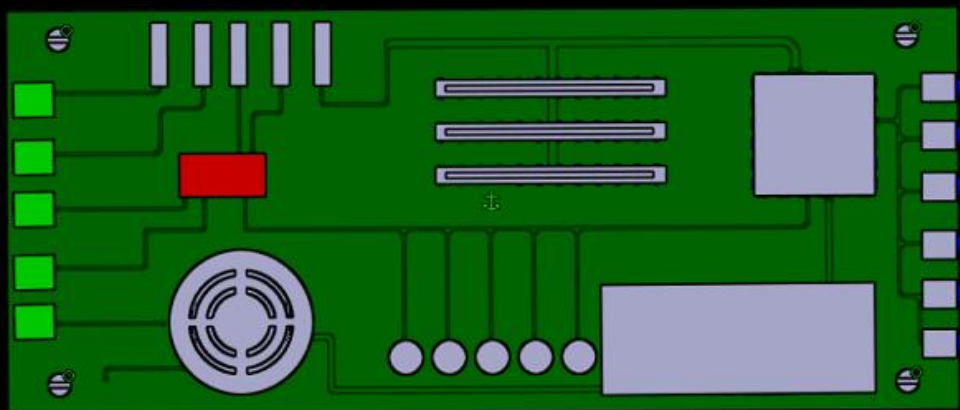
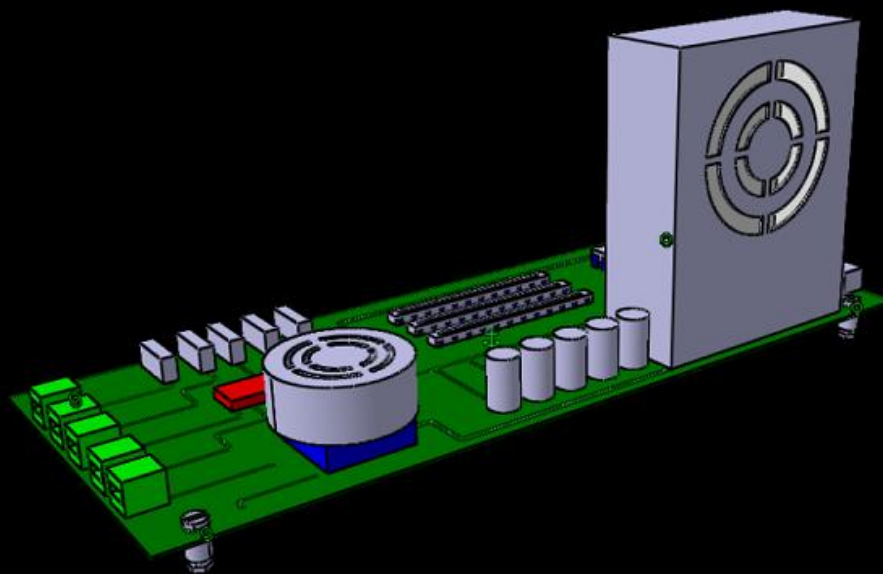
ERGONOMICS



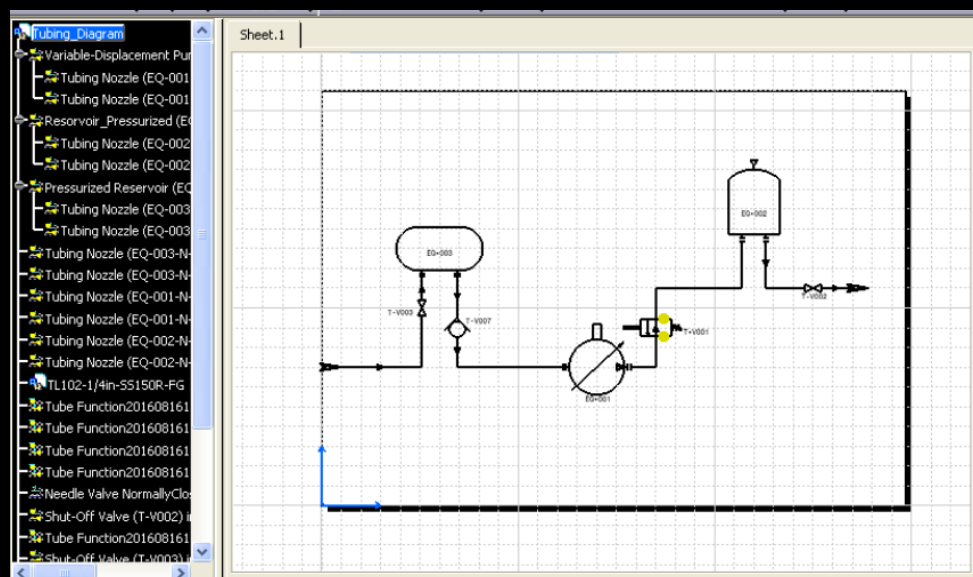
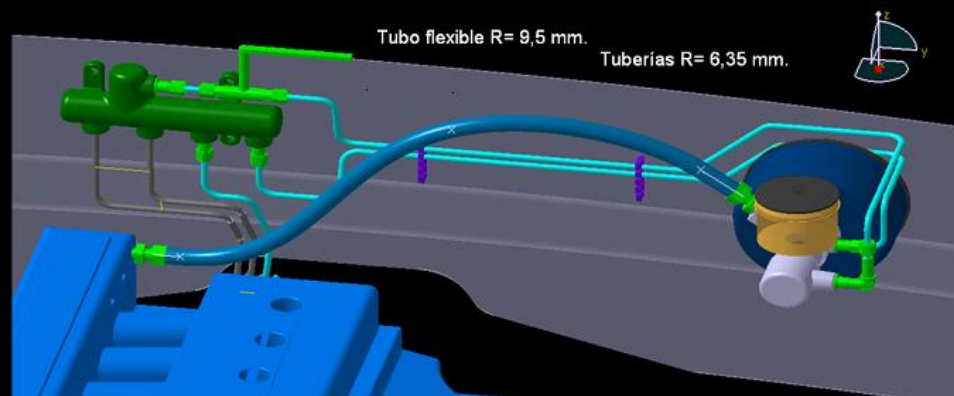
Electrical Circuit Design

Electrical Harness Instalation

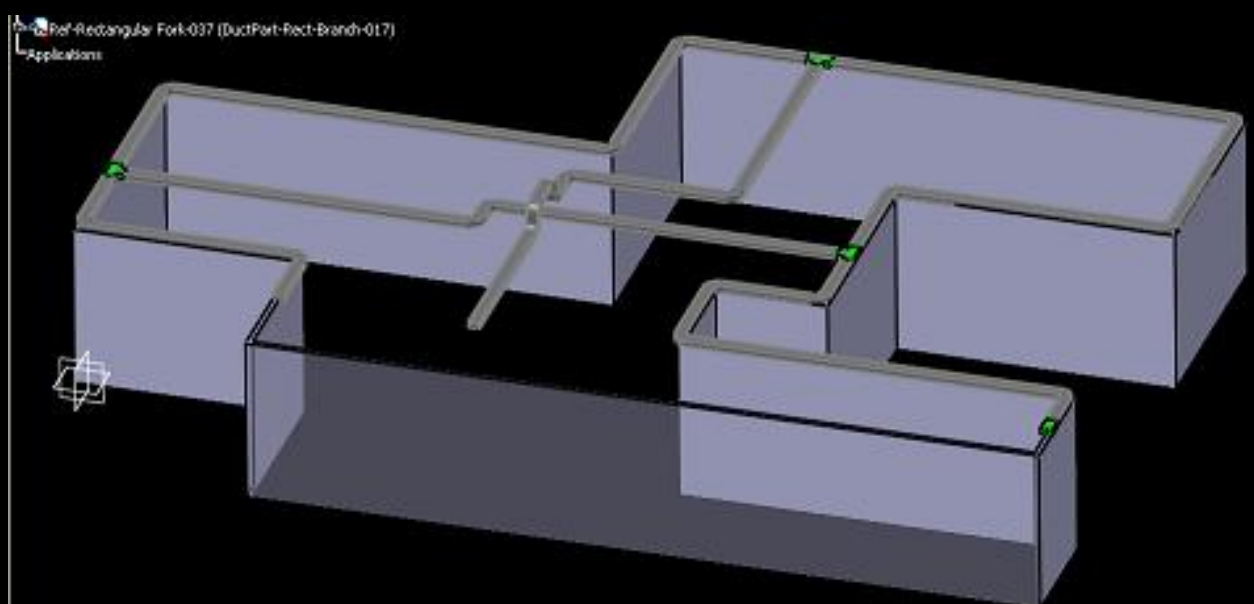
Electrical Harness Assembly

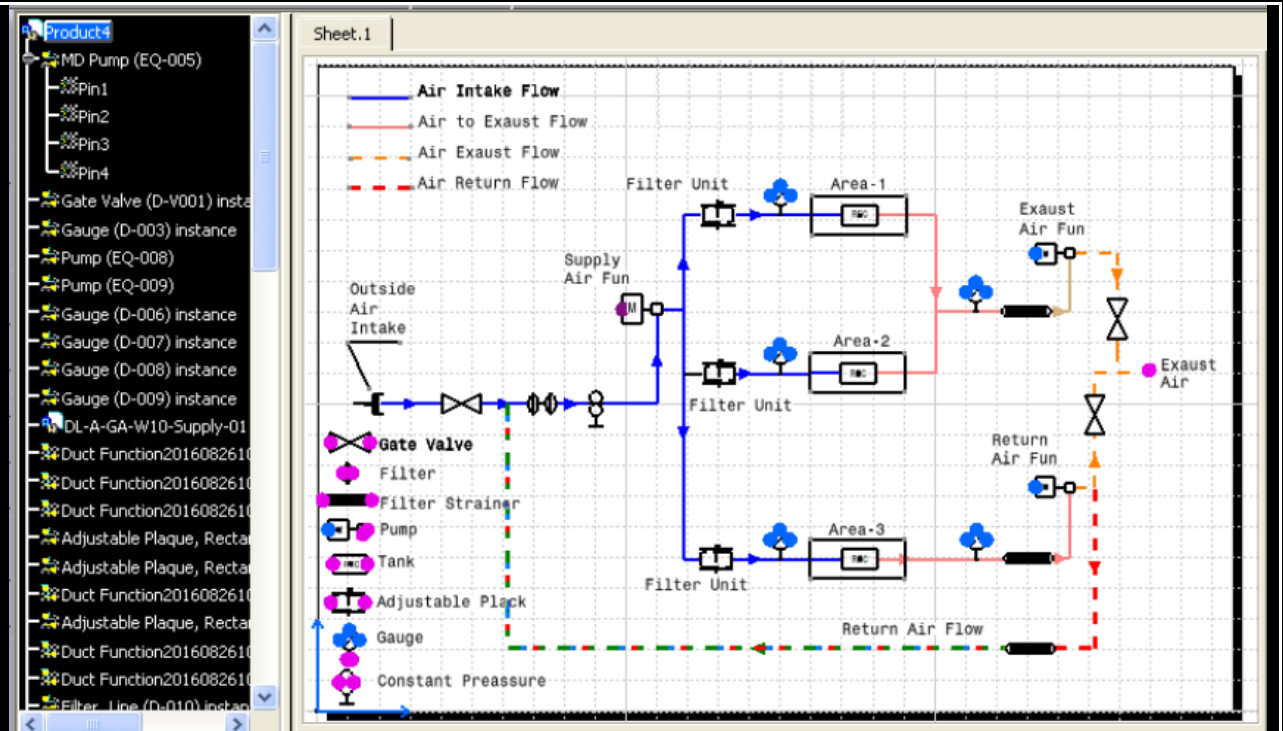


Piping – Tubing

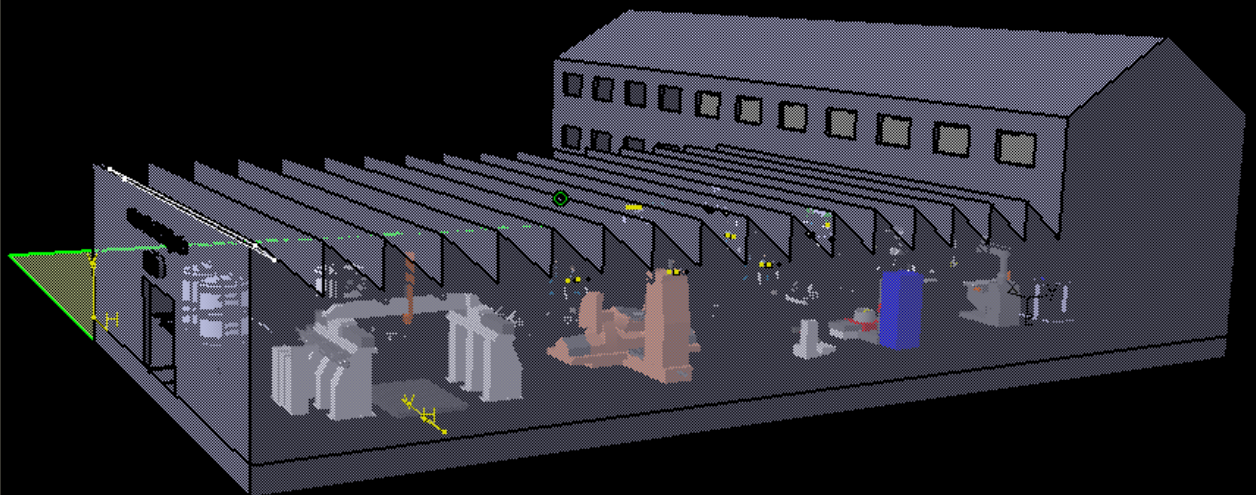


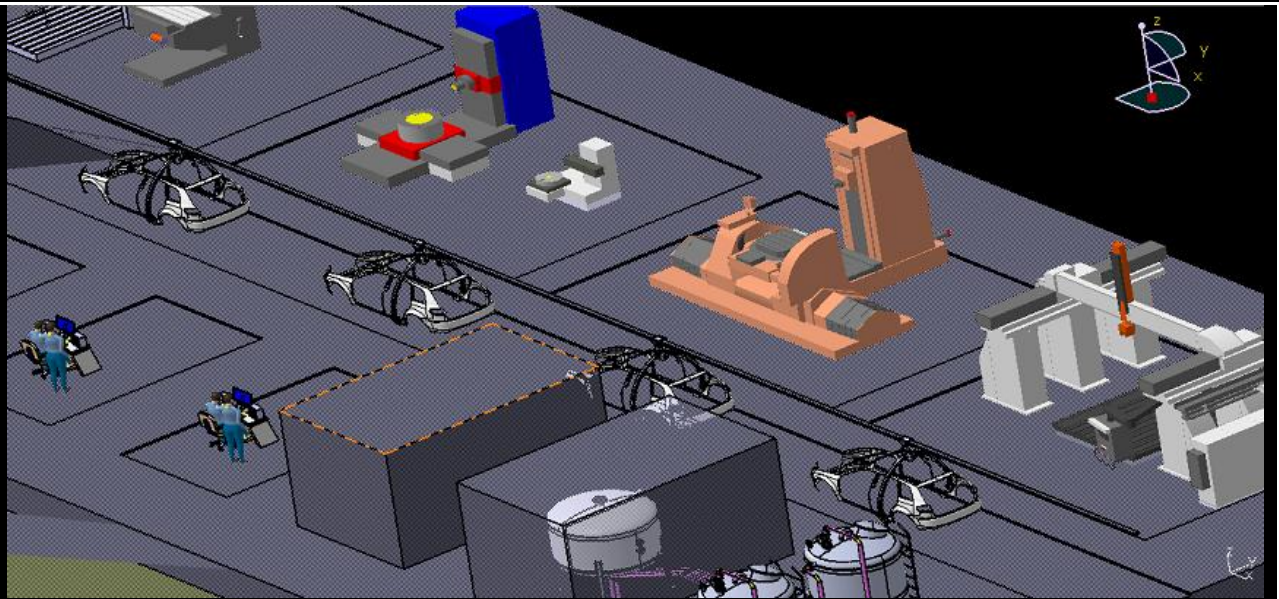
HVAC



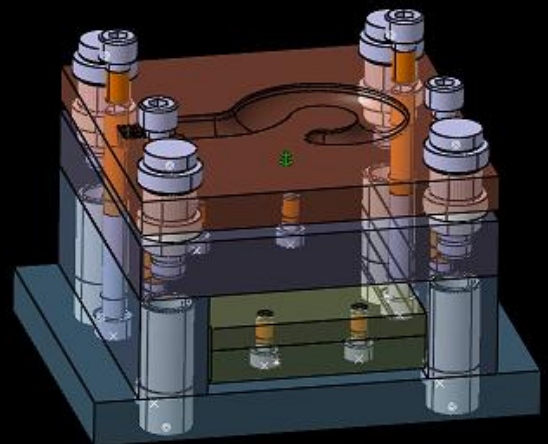
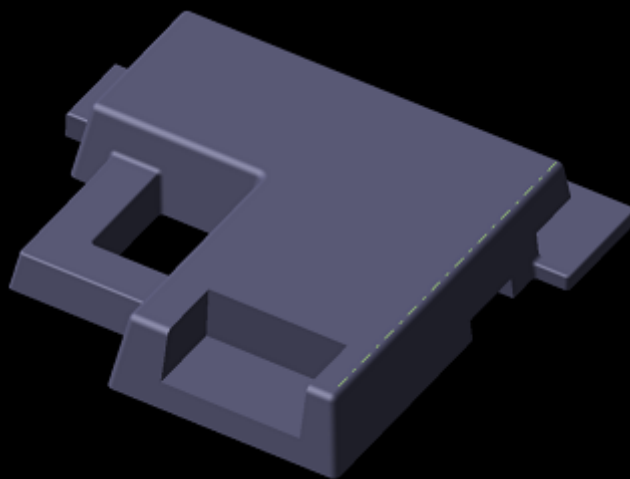


AEC Plant



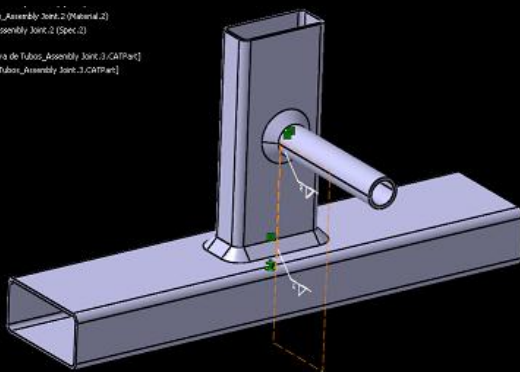


Molding



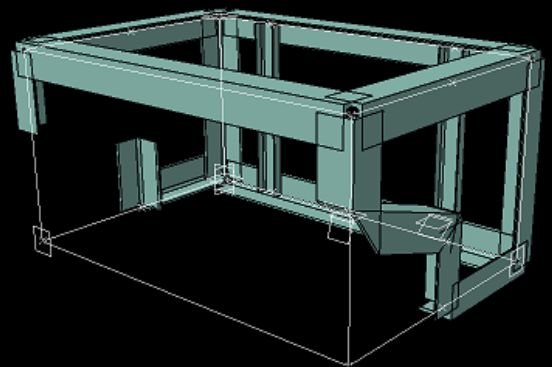
Weld Design

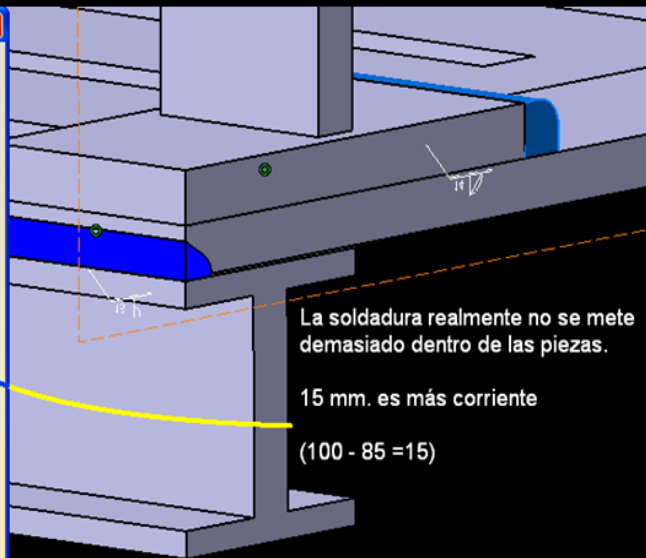
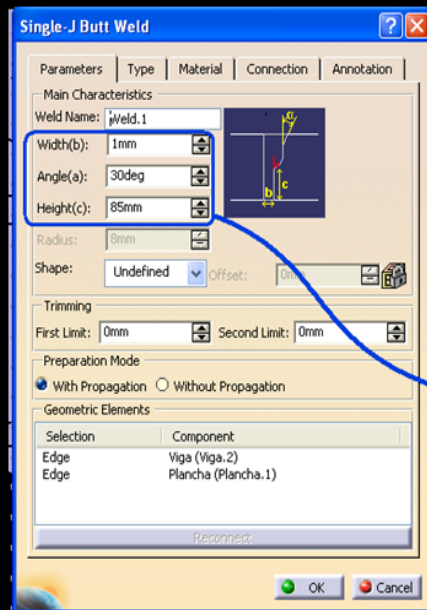
Assembly Joint.2 (Material.2)
Assembly Joint.2 (Spec.2)
via de Tubos Assembly Joint.3 (CATPart)
Tubos Assembly Joint.3 (CATPart)



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Structure

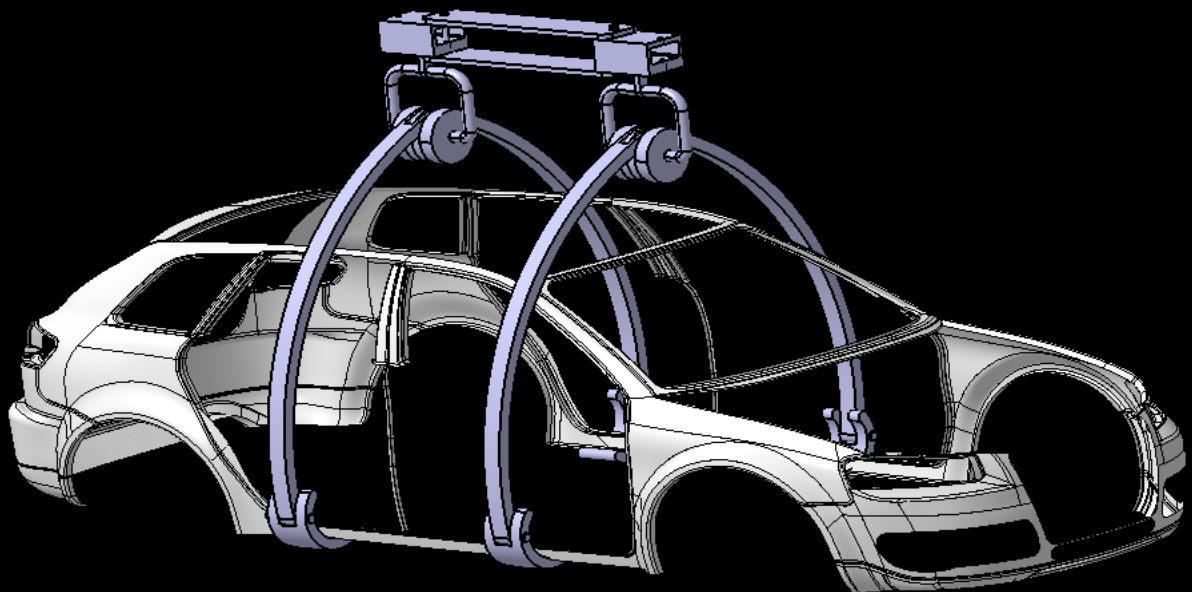




La soldadura realmente no se mete demasiado dentro de las piezas.

15 mm. es más corriente
(100 - 85 = 15)

Utillaje de Montaje



Scanner 3D



123 Catch crear objetos editables desde Fotos de un objeto real

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Actualización a CATIA V6



Esto son solo algunos de los ejercicios del Master y Cursos de CATIA de CPS