SOLID EDGE
VELOCITY SERIES

Tutorial: ***Front Piece***

Project: ***Rocket (Synchronous)***

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Solution Partner PLM | SIEMENS

DETAIL A
10:1

AMERICAN PROJECTION	SCALE : 2:1	AUTHOR : Ruben	CAAP Hamersveldseweg 65, 3833 GL Leusden, +31(0)33-4573322, www.caap.nl
	DIMENSION UNITS : MM	CLASS (DEPARTMENT) : -	
	DATE : 29-10-2011	CHECKED BY : -	

MATERIAL : ABS Plastic, high impact	TITEL : Front Piece	NUMBER : 1004	REV: A	SIZE: A4
PROJECT: Rocket				

1	1. Start **Solid Edge.** 2. Click on **<u>ISO Part.</u>** 	
2	1. Click the **Line** button. 2. Draw the profile. Start at left with the horizontal line. Line (**A**) is a Arc. Press A after the slanted line, to draw the Arc line.	
3	1. Click the **Smart Dimension** button. 2. Click on the horizontal line. 3. Click to place the dimension. 4. Key in the value **66** and confirm with **Enter**.	

4	1. Click the **Symmetric Diameter** button. 2. Click on the horizontal line. 3. Click on the other horizontale line, as shown. 4. Click to place the dimension. 5. Key in the value **9,8** and confirm with **Enter**.	
5	1. Click on the horizontal line, as shown. 2. Click to place the dimension. 3. Key in the value **10** and confirm with **Enter**.	
6	4. Click on the end point of the left vertical line. 5. Click to place the dimension. 6. Key in the value **14,5** and confirm with **Enter**.	

7	1. Click the **Connect** button. 2. Point the cursor at the Arc and wait until the icon appears. Click on the icon. 3. Point at the horizontal line and wait until the icon appears before clicking.	
8	1. Click the **Smart Dimension** button. 2. Click on the Arc. 3. Click to place the dimension. 4. Key in the value **2** and confirm with **Enter**.	
9	1. Click the **Angle Between** button. 2. Click on the horizontal line. 3. Click on the slanted line. 4. Click to place the dimension. 5. Key in the value **20** and confirm with **Enter**.	

10	1. Click the **Smart Dimension** button. 2. Click on the horizontal line, as shown. 3. Click to place the dimension. 4. Key in the value **19** and confirm with **Enter**.	
11	1. Click the **Connect** button. 2. Point at the middle point of the horizontal line and wait until the icon appears before clicking. 3. Point at the **Origin** and wait until the icon appears before clicking.	
12	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	

13	3. Click on the blue doth of the Steering Wheel and click on the horizontal line to place it.	
14	4. When you hover over the **Torus** of the Steering Wheel, it will turn red. Click on the **Torus**, as shown.	
15	5. Click the **360** button.	

16	1. Click the **Thread** button. 2. Select the Type: **M10**. 3. Click on the cilinder, as shown.	
17	4. Click the **OK** button.	
18	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table** button.	

19	1. Choose the material **ABS, high impact**. 2. Click **Apply to Model** to set the material to the part. ***Hint:*** *There are several properties which are connected to a material, like color and density. The density is necessary to determine the weight.*	
20	The part is ready. Now it must be saved. 1. First press **Ctrl + i** to turn the image to isometric view. 2. Click on the floppy icon. 3. Go to the **Summary** tab**.** 4. Fill in *Front Piece* at Title. 5. Go to the **Project** tab and fill in the following properties: Document Number*: 1004*. Revision Number*: A*. Project Name: *Rocket*. 6. Click **OK** to close the screen. ***Hint:*** *All properties of the part are saved at the **File Properties**. These properties will used to fill in a part list.*	

21	1. Browse to the folder *Rocket*. 2. Save the document by name *Rocket-1004-Front Piece-A.par*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*	