SOLID EDGE
VELOCITY SERIES

Tutorial: ***Base 1***

Project: ***Bird Feeder (Synchronous)***

cad / cam / pdm / cae | CAAP®

Solution Partner PLM | SIEMENS

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	DATE : 12-11-2011	CHECKED BY : -	

MATERIAL : Wood, Oak	TITEL :	NUMBER :	REV:	SIZE:
PROJECT: Bird Feeder	Base 1	1001	A	A4

1	1. Start **Solid Edge.** 2. Click on **<u>ISO Part.</u>** 	
2	1. Click the **Rectangle by Center** button. 2. Point at the **Origin** and wait until the icon appears before clicking.	
3	3. Click to place the **Rectangle**.	

4	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	
5	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown. 4. Click the **Extrude – Symmetric** button.	
6	5. Type **20** and confirm with **Enter**.	

7	1. Click the **Smart Dimension** button. 2. Click on the horizontal line. 3. Click to place the dimension. 4. Click on the right green arrow. 5. Key in the value **40** and confirm with **Enter**.	
8	If the **Smart Dimension** is still active. 1. Click on the left vertical line. 2. Click to place the dimension. 3. Click on the right green arrow. 4. Key in the value **500** and confirm with **Enter**.	
9 +	1. Click the **Hole** button. 2. Click on the **Hole Options**.	

10	Fill in the Hole Options, as shown. 3. Type: **Simple**; 4. Diameter: **30**; 5. Extents: **Through Next**; 6. Click the **OK** button.	
11	1. Make sure the Keypoint option is **End Point**. 2. Point at the **Origin** and wait until the icon appears before clicking.	
12 +	1. Click the **Rectangle by Center** button. 2. Point the cursor at the plane and click on the lock icon.	

13	3. Point at the centre point of the horizontal line. Wait until the icon appears before clicking.	
14	4. Click to place the Rectangle.	
15	1. Click the **Select** button. 2. When you hover over the Region, it will turn red. Click on the Region, as shown.	

16	3. When you hover over the arrow, it will turn red. Click on the arrow, as shown. 4. Click the **Extrude – Symmetric** button.	
17	5. Make sure the Cut is through the part and click.	
18	1. Click the **Smart Dimension** button. 2. Click on the **Origin**. 3. Click on the right horizontal line. 4. Click to place the dimension. 5. Key in the value **20** and confirm with **Enter**.	

19	If the **Smart Dimension** is still active. 1. Click on the horizontal line. 2. Click on the other horizontal line, as shown. 3. Click to place the dimension. 4. Make sure the left green arrow is selected. 5. Key in the value **10** and confirm with **Enter**.	
20 +	1. Click the **Hole** button. 2. Click on the **Hole Options**.	
21	Fill in the Hole Options, as shown. 1. Type: **Simple**; 2. Diameter: **10**; 3. Extents: **Finite**; 4. Hole depth: **10**; 5. Click the **OK** button.	

22	1. Click on the plane, as shown, to place the hole.	
23	2. Click the **Select** button. 3. When you hover over the Region, it will turn red. Click on the Region, as shown.	
24	4. Point at the **Origin** and wait until the icon appears before clicking.	

25	1. Click the **Smart Dimension** button. 2. Click on the **Origin**. 3. Click on the **Hole**. 4. Click to place the dimension. 5. Key in the value **180** and confirm with **Enter**.	
26	1. Click the **Chamfer Equal Setbacks** button. 2. Click on the edge of the Hole, as shown. 3. Key in a value for the chamfer (in this case **1**) and confirm with **Enter**.	
27	1. Click the **Select** button. 2. Select the Hole and the Chamfer in the PathFinder. 3. Click the **Mirror** button. 4. Click on the **Right (yz)** plane, as shown.	

28	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table** button.	
29	1. Choose the material **Wood, Oak**. 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.*	

30	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 *Base 1* at Title. 5. Go to the **Project** tab and fill in the following properties: Document Number*: 1001*. Revision Number*: A*. Project Name: *Bird Feeder*. 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.*	
31	1. Create a folder named *Bird Feeder*. 2. Save the document by name *Bird Feeder-1001-Base 1-A.par*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*	