SOLID EDGE
VELOCITY SERIES

Tutorial: ***Edge***

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

cad / cam / pdm / cae | CAAP®

Solution Partner PLM | SIEMENS

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	DIMENSION UNITS : MM	CLASS (DEPARTMENT) : -	
	DATE : 12-11-2011	CHECKED BY : -	

MATERIAL : Wood, Oak	TITEL :	NUMBER :	REV:	SIZE:
PROJECT: Bird Feeder	Edge	1008	A	A4

1	1. Start **Solid Edge.** 2. Click on **ISO Part.** 	
2	1. Click the **Polygon by Center** button. 2. Point at the **Origin** and wait until the icon appears before clicking.	
3	3. Point at the X-axis, as shown and wait until the dotted line and icon appears before clicking.	

4	1. Click the **Horizontal/Vertical** button. 2. Click on the line, as shown.	
5	1. Click the **Smart Dimension** button. 2. Click on the horizontal line. 3. Click on the other line, as shown. 4. Click to place the dimension. 5. Key in the value **400** and confirm with **Enter**.	
6	1. Click the **Line** button. 2. Draw the profile, as shown.	

7	1. Click the **Distance Between** button. 2. Click on the slanted line. 3. Point at the left endpoint of the slanted line and wait until the icon appears before clicking. 4. Click to place the dimension. 5. Key in the value **20** and confirm with **Enter**.	
8	1. Click the **Parallel** button. 2. Click on the slanted line. 3. Click on the other slanted line, as shown.	
9	1. Click the **Distance Between** button. 2. Click on the slanted line. 3. Click on the other line, as shown. 4. Click to place the dimension. 5. Key in the value **60** and confirm with **Enter**.	

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

13 + 	1. Deselect the **Sketches** in the PathFinder. 2. Click the **Hole** button. 3. Click on the **Hole Options**.	
14 	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.	
15 	1. Click on the plane to place the Hole, as shown. 2. Click to place the second Hole, as shown.	

16	1. Click the **Select** button. 2. Click on the blue area of the Steering Wheel.	
17 +	1. Select the KeyPoint option: **MidPoint**. 2. Point the cursor at the middle point of the horizontal line and wait until the icon appears.	
18	3. Click on the dot in the centre of the Steering Wheel, as shown.	

19	4. Point the cursor at the horizontal line to place the Steering Wheel.	
20	5. When you hover over the arrow, it will turn red. Click on the arrow, as shown.	
21	6. Key in the value **90** and confirm with **Enter**.	

22	7. When you hover over the arrow, it will turn red. Click on the arrow, as shown.	
23	8. Key in the valie **8** and confirm with **Enter**. 9. Press the esc button to deselect the Hole.	
24	1. Repeat the steps 16 till 24 to move the other Hole, as shown.	

25	1. Click the **Chamfer Equal Setbacks** button. 2. Click on the edges, as shown. 3. Key in a value for the chamfer (in this case **1**) and confirm with **Enter**.	
26 +	1. Click the **Select** button. 2. Click on the Hole and Chamfer in the PathFinder, as shown. 3. Click the **Mirror** button. 4. Click on the plane of the Base, as shown.	
27	Now we set the material property. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **Material Table** button.	

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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.

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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 *Edge* at Title.
5. Go to the **Project** tab and fill in the following properties:
   Document Number*: 1008*.
   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.*

30	1. Browse to the folder named *Bird Feeder*. 2. Save the document by name *Bird Feeder-1008-Edge-A.par*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*	