SOLID EDGE
VELOCITY SERIES

Tutorial: ***Assembly***

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

cad / cam / pdm / cae | CAAP®

Solution Partner PLM | SIEMENS

ITEM	AANTAL	BENAMING	MATERIAAL	DOCUMENT NR.	REV.	FILE NAME
16	6	Roof	Wood, Oak	1011	A	Bird Feeder-1011-Roof-A.par
15	1	Upper Pole	Wood, Oak	1010	A	Bird Feeder-1010-Upper Pole-A.par
14	1	Upper Plate 2	Wood, Oak	1012	A	Bird Feeder-1012-Upper Plate 2-A.par
13	6	Edge	Wood, Oak	1008	A	Bird Feeder-1008-Edge-A.par
12	4	Upper Plane Clamp	Wood, Oak	1007	A	Bird Feeder-1007-Upper Plate Clamp-A.par
11	1	Upper Plate 1	Wood, Oak	1006	A	Bird Feeder-1006-Upper Plate 1-A.par
10	4	Base Clamp	Wood, Oak	1004	A	Bird Feeder-1004-Base Clamp-A.par
9	1	Middle pole	Wood, Oak	1003	A	Bird Feeder-1003-Middle Pole-A.par
8	1	Base 2	Wood, Oak	1002	A	Bird Feeder-1002-Base 2-A.par
7	1	Base 1	Wood, Oak	1001	A	Bird Feeder-1001-Base 1-A.par
6	12	Pole	Wood, Oak	1009	A	Bird Feeder-1009-Pole-A.par
5	64	Pin	Wood, Oak	1005	A	Bird Feeder-1005-Pin-A.par

AMERICAN PROJECTION

SCALE : -:-
DIMENSION UNITS : MM
DATE : 12-11-2011

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MATERIAL :
PROJECT: Bird Feeder

TITEL : Assembly
NUMBER : 3001
REV: A
SIZE: A4

1	1. Start **Solid Edge.** 2. Click on **<u>ISO Assembly.</u>** 	
2	1. Click on the **Parts Library**. 2. Browse to the folder **Bird Feeder**.	
3	1. Drag the **Bird Feeder-1001-Base 1-A.par** file in the Assembly.	

4	1. Drag the **Bird Feeder-1002-Base 2-A.par** file in the Assembly.	
5	The part can be assembled. 1. Click on the plane of the base 2. 2. Click on the plane of the base 1, as shown. 3. Click the **Flip** button, to turn the part. ***Hint:*** *Selected the wrong plane? Click the RMB to deselect.*	
6	4. Click on the plane of the base 2. 5. Click on the plane of the base 1, as shown.	

7	6. Click on the plane of the base 2. 7. Click on the plane of the base 1, as shown.	
8	1. Drag the **Bird Feeder-1003-Middle Pole-A.par** file in the Assembly.	
9 +	1. Click on the highest cylinder of the middle pole, as shown. 2. Click on the cylinder of the base 2, as shown. 3. Click the **Lock Rotation** button. 4. Click on the **Flip** button, to turn the part.	

10 	5. Click on the plane of the middle pole, as shown. 6. Click on the plane of the base 1.	
11 	1. Drag the **Bird Feeder-1006-Upper Plate 1-A.par** file in the Assembly.	
12 + 	2. Click on the Hole of the upper plate 1, as shown. 3. Click on the cylinder of the middle pole. 4. Click the **Lock Rotation** button.	

13	5. Click on the bottom plane of the upper plate 1, as shown. 6. Click on the plane of the middle pole, as shown.	
14	1. Drag the **Bird Feeder-1005-Pin-A.par** file in the Assembly.	
15 +	2. Click on the cylinder of the pin. 3. Click on the Hole of the upper plate 1. 4. Click the **Lock Rotation** button.	

16	5. Click on the bottom plane of the pin. 6. Click on the plane of the Hole, as shown. ***Hint:*** *Point the cursor at the plane. Wait until the icon appears and click the RMB. Select the plane in the QuickPick.*	
17 +	1. Repeat the steps 14 till 17 to place the second pin.	
18	1. Drag the **Bird Feeder-1008-Edge-A.par** file in the Assembly.	

19	1. Click on the plane of the edge. 2. Click on the plane of the upper plate 1.	
20	3. Click on the Hole of the edge, as shown. 4. Click on the cylinder of the pin.	
21	5. Click on the Hole of the edge, as shown. 6. Click on the cylinder of the pin.	

22 +	1. Repeat the steps 14 till 76 to place the pins.	
23	1. Drag the **Bird Feeder-1009-Pole-A.par** file in the Assembly.	
24 +	1. Click on the Hole of the pole. 2. Click on the cylinder of the pin. 3. Click the **Lock Rotation** button.	

25	4. Click on the bottom plane of the pole. 5. Click on the top plane of the edge.	
26 +	6. Repeat the steps 23 till 26 to place the second pole.	
27 +	1. Repeat the steps 14 till 17 to place the pins.	

28	1. Drag the **Bird House-1012-Upper Plate 2-A.par** file in the Assembly.	
29	2. Click on the top plate of the upper plate 2. 3. Click on the top plane of the pole. 4. Click on the **Flip** button, to turn the part.	
30	5. Click on the cylinder of the Hole. 6. Click on the cylinder of the pin.	

31	7. Click on the Hole of the Upper Plate 2, as shown. 8. Click on the cylinder of the pin.	
32	1. Drag the **Bird House-1010-Upper Pole-A.par** file in the Assembly.	
33 +	2. Click on the cylinder of the upper pole. 3. Click on the cylinder of the Upper Plate 2, as shown.. 4. Click the **Lock Rotation** button.	

34	1. Click on the bottom plane of the upper pole. 2. Click on the plane of the Upper Plate 2, as shown.	
35 +	1. Repeat the steps 14 till17 to place the pins.	
36	1. Drag the **Roadroller-1011-Roof-A.par** file in the Assembly.	

37	2. Click on the bottom plane of the roof. 3. Click on the top plane of the Upper Plate 2.	
38	4. Click on the Hole of the Roof. 5. Click on the cylinder of the pin, as shown.	
39	6. Click on the Hole of the Roof. 7. Click on the cylinder of the pin, as shown.	

40 + 	1. Repeat the steps 14 till 17 to place the pins.	
41 	1. Drag the **Bird Feeder-1004-Base Clamp-A.par** file in the Assembly.	
42 	2. Click on the plane of the Base Clamp, as shown. 3. Click on the plane of the middle pole.	

43	4. Click on the bottom plane of the Base Clamp, as shown. 5. Click on the top plane of the Base 2.	
44	6. Click on the Hole of the Base Clamp. 7. Click on the cylinder of the pin.	
45 +	1. Repeat the steps 14 till 16 to place the pins.	

46 +	1. Repeat the steps 41 till 45 to plave the Upper Plate Clamp.	
47	1. Select the Base Clamp, Upper Plate Clamp and its pins in the PathFinder. 2. Click the **Pattern** button.	
48	3. Click on the middle pole.	

49	4. Click on the Holes, as shown.	
50	5. Click on the left Hole, as shown. 6. Click RMB to accept.	
51	7. Click the **Finish** button.	

52	1. Click the **Sketch** button. 2. Click on the plane of the Upper Plate 1, as shown.	
53	3. Click the **Circular Pattern** button. 4. Key the value **6** at Count and confirm with **Enter**. 5. Point at the **Origin** and wait until the icon appears before clicking. 6. Point at the endpoint of the X-axis and wait until the icon appears before clicking.	
54 +	7. Make sure the arrow is turns clockwise. 8. Click the **Close Sketch** button.	

55	9. Click the **Finish** button.	
56	1. Select the edge, pole, roof and its pins in the PathFinder. 2. Click the **Pattern** button.	
57	3. Click the Sketch in the PathFinder. 4. Click for the second time on the Sketch.	

58	5. Click the **Finish** button.	
22	Now we set the File properties. 1. Click the **Application Button**. 2. Click on **Properties**. 3. Click the **File Properties**.	
23	1. Go to the **Summary** tab. 2. Type *Assembly* at Title. 3. Go to the **Project** tab and fill in the following properties: Document Number*: 3001*. Revision Number*: A*. Project Name: *Bird Feeder*. 4. Click **OK** to close the screen. ***Hint:*** *All properties of the part are saved at the **File Properties**. These properties will be used by making a drawing or part list.*	

24	Save the file. 1. Browse to the folder *Bird Feeder*. 2. Save the document by name *Bird Feeder-3001-Assembly-A.par*. 3. Click the **Save** button. 4. Close the file. ***Hint:*** *Save all files of one project in the same folder.*	