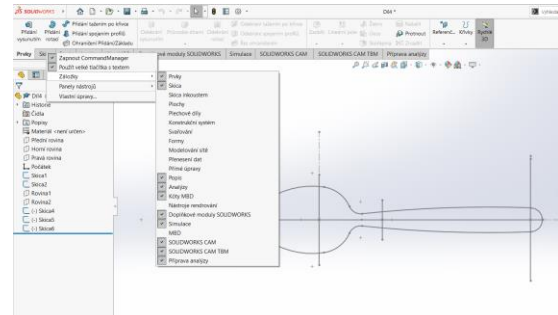


## Folding surfaces into a 3D model - spoon

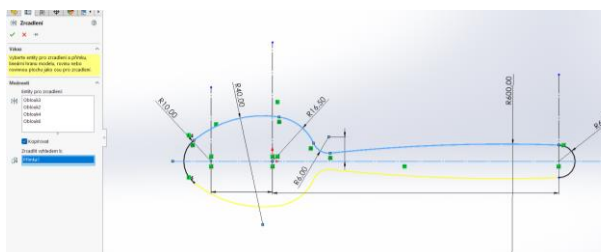
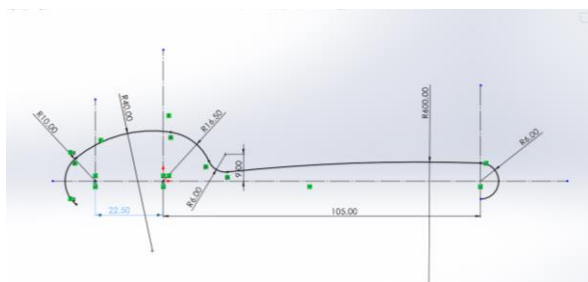
### 1. Show the "Surfaces" tab

- Right click on bookmarks
- Under "Bookmarks" select "Surface"



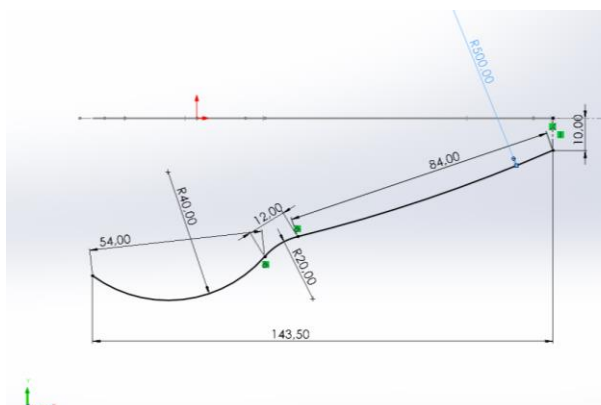
### 2. Spoon shape sketch for cropping

- Draw a sketch on the top plane
- Create one horizontal axis and three vertical axes (the middle one passes through the center, and the other two are 22.5 and 105 mm apart)
- Then create 6 arcs tangent to each other (radii: 10; 40; 16.5; 6; 600 and 6 mm)
- Mirror the necessary arcs along the horizontal axis



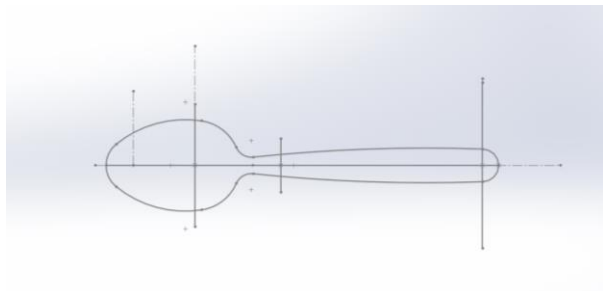
### 3. Sketch of the side of a spoon

- Create a sketch in the correct plane
- Under "sketch1" sketch the shape of the spoon from the side of 3 mutually tangent

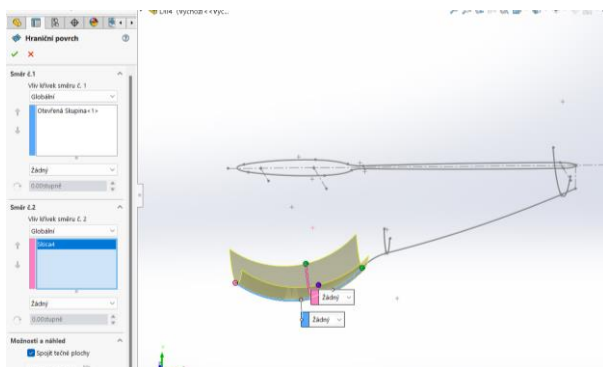


4. A frontal sketch

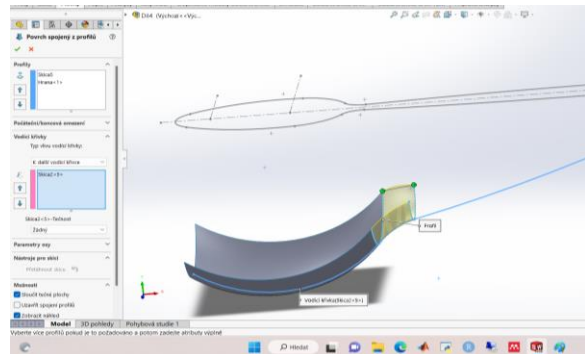
- 



- Use the “Boundary Surface” to create the face of the dipper
- Use “Surface-Loft” to connect the end of the built surface and the connecting arc from plane 1

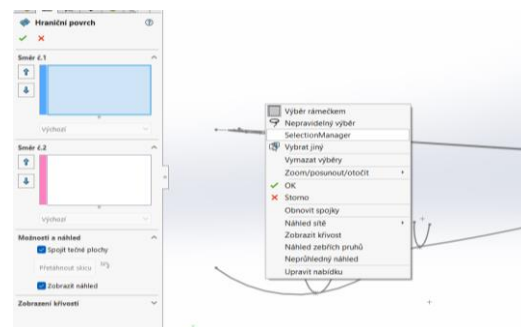


- c. Create the last surface in the same way
- d. Create a new sketch: a straight line following "sketch2" (to the final rounding of the spoon)
- e. Use the "Boundary Surface" to complete the last piece of surface



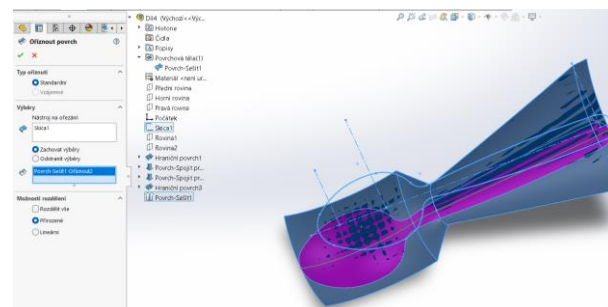
Advice: use

"SelectionManager" to select parts of "sketch2"



## 6. Completing the spoon

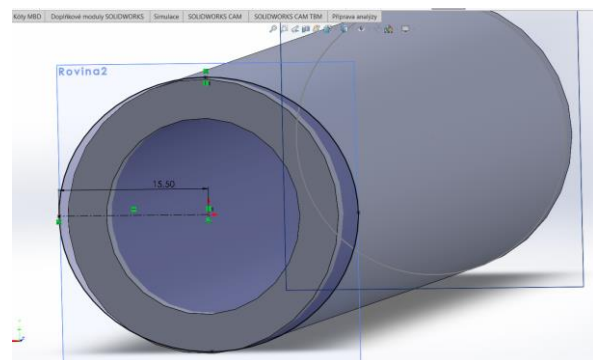
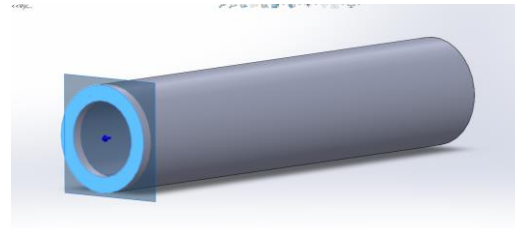
- a. Join individual surfaces together with the "Knit Surface" function
- b. Use the "Trim surface" function to cut out the shape of a spoon from the resulting surfaces
- c. Use the "Thicken" function to add 1mm thickness to the faces
- d. Complete the Spoon part



## 3D tvary - grip na kolo

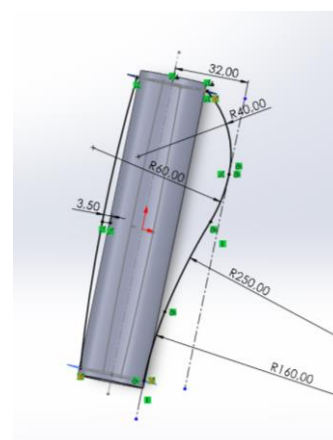
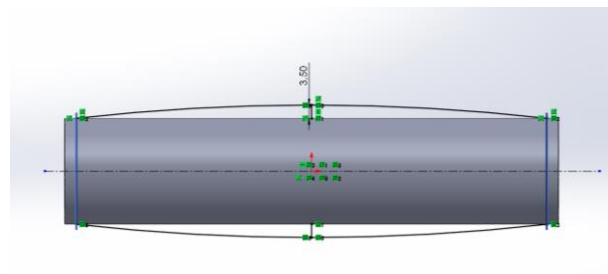
### 1. Base for handlebars

- Create a hollow cylinder with radii of 20 mm and 28 mm and a length of 130 mm
- Insert reference planes 3mm from both edges
- In the first reference plane, create a circle with a radius of 28 mm
- In the second reference plane, create an ellipse (R1 = 15.5mm, R2 = 14mm)



### 2. The outer surface of the grip

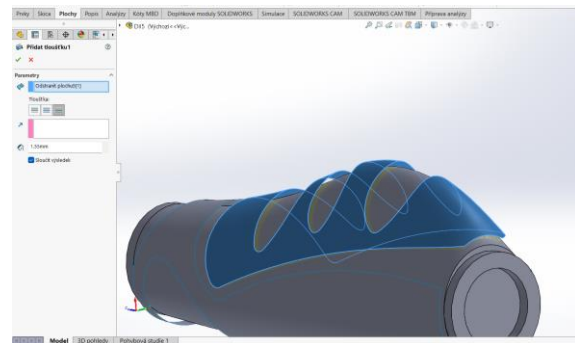
- In the right plane, create 2 symmetrical arcs at the widest part 3.5 mm from the surface
- Create a complex grip shape on the top plane
- Make use of arcs connected by a tangent link



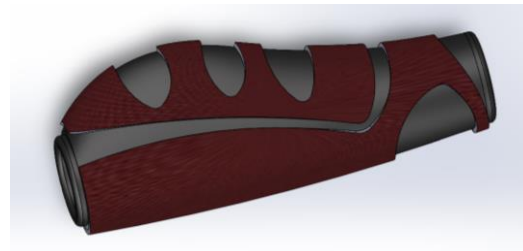
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- b. Apply “Thicken” to the remaining surfaces



- c. Complete the grip



### 3D model of molds

1. Think of your own 3D design for prototype pads
2. Based on this design and loaded with knowledge, create a 3D model of the mold for casting