

# TECHNOLOGY & INNOVATION

simulate the deep drawing  
process to optimize production

# TECHNOLOGY & INNOVATION

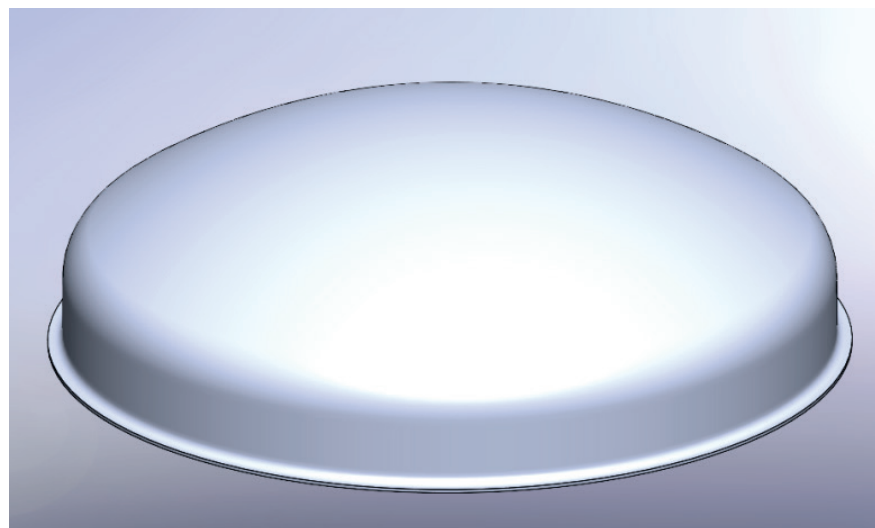


Thanks to sophisticated and advanced software, we can simulate the deep drawing processes. Moreover we can calculate the starting blank size and thickness and final thickness of the dished head.

The benefits of the simulation analysis are as following :

- » improvement of the die building process
- » definition and control of the technical features
- » raw material purchasing optimization
- » quality control parameters
- » serial production optimization

This analysis allows considerable time and production costs saving

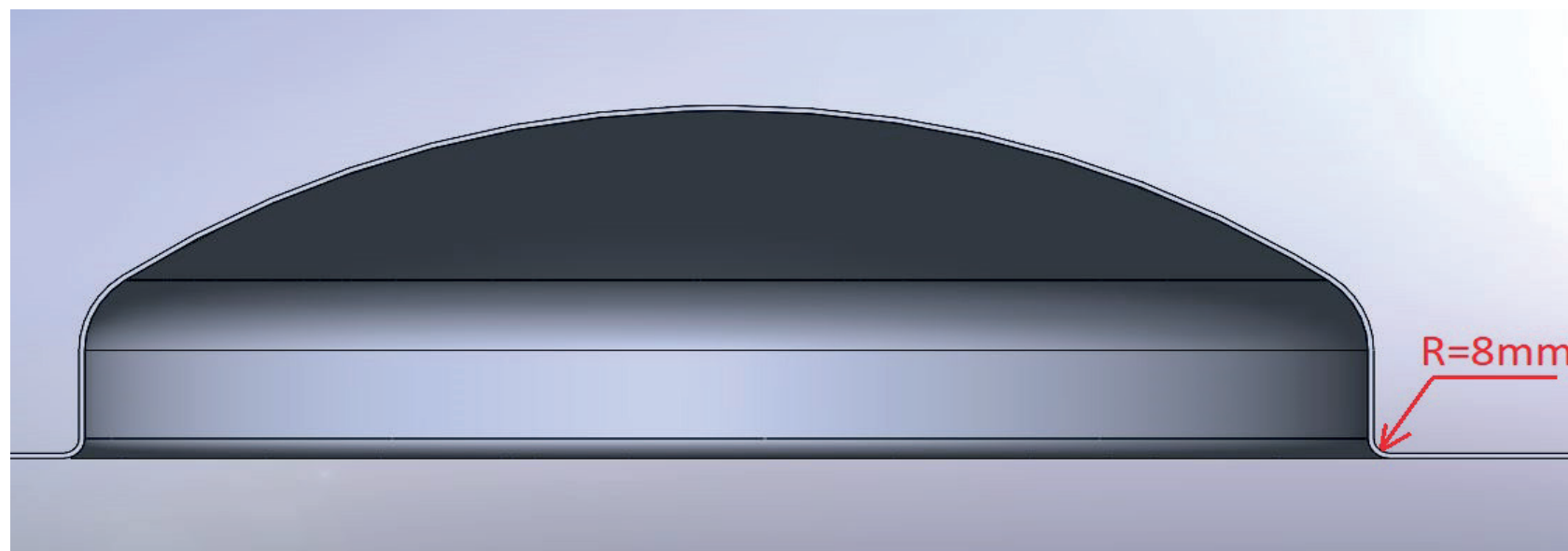
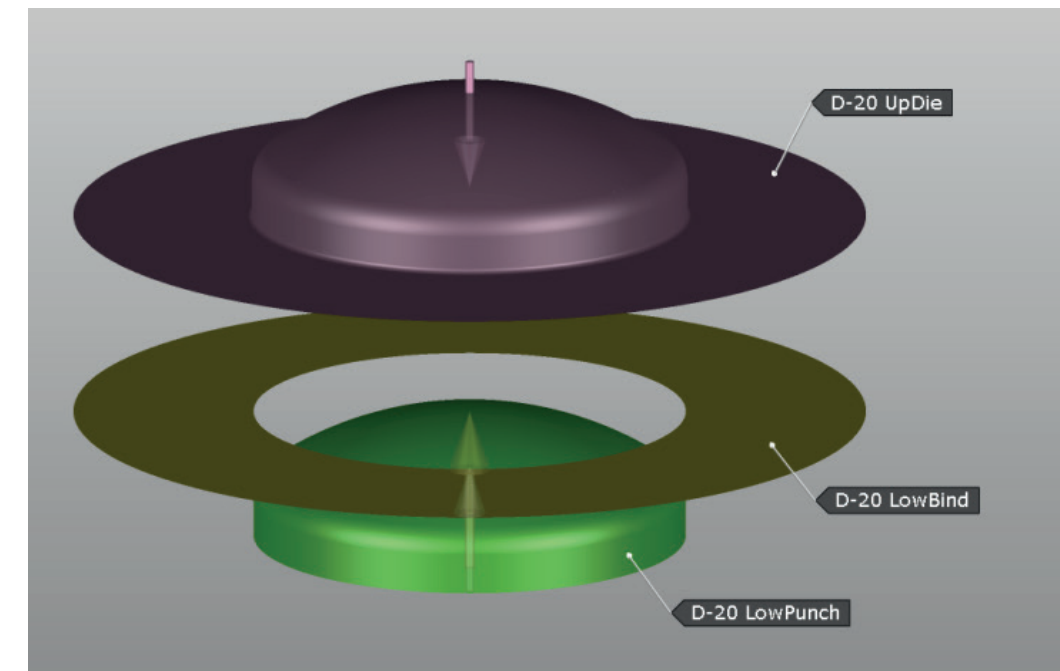


# CHARACTERISTICS OF THE DIE



In the simulation phase, all the parameters relating to::

- » type of raw material
- » thickness and initial diameter of the sheet
- » type of dies
- » tool data



tool data entered

Total force required for the operation (t)

Lower binder data

- » Force (t)
- » Stroke (mm)

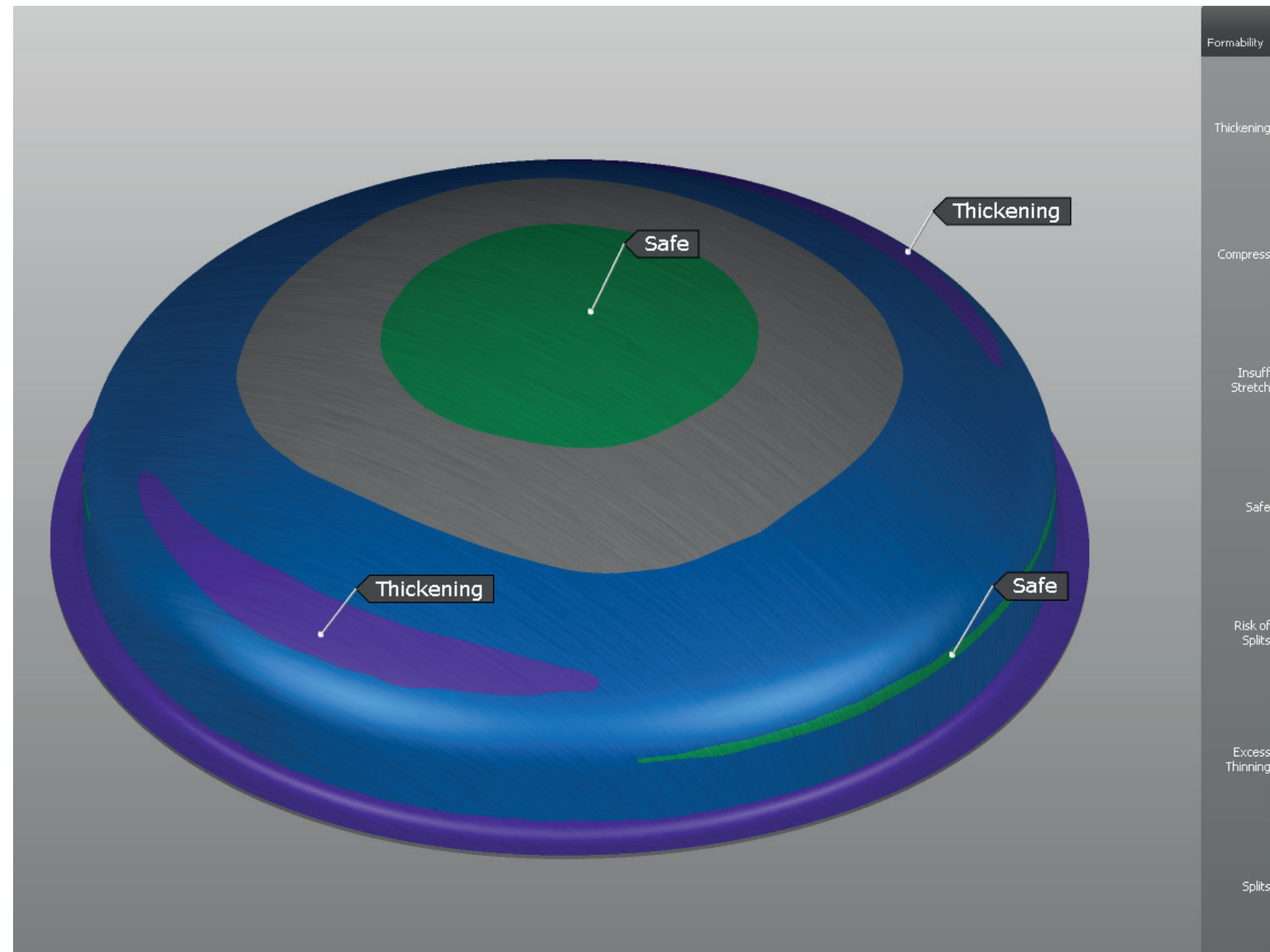
Upper die radius (mm)



# SIMULATION | formability



Any potential areas that risk breakages or cracks are studied during the simulation and can be modified for conform production.



# SIMULATION | thickness



The simulation allows a specific analysis of the minimal thickness that we must reach during the deep drawing.

