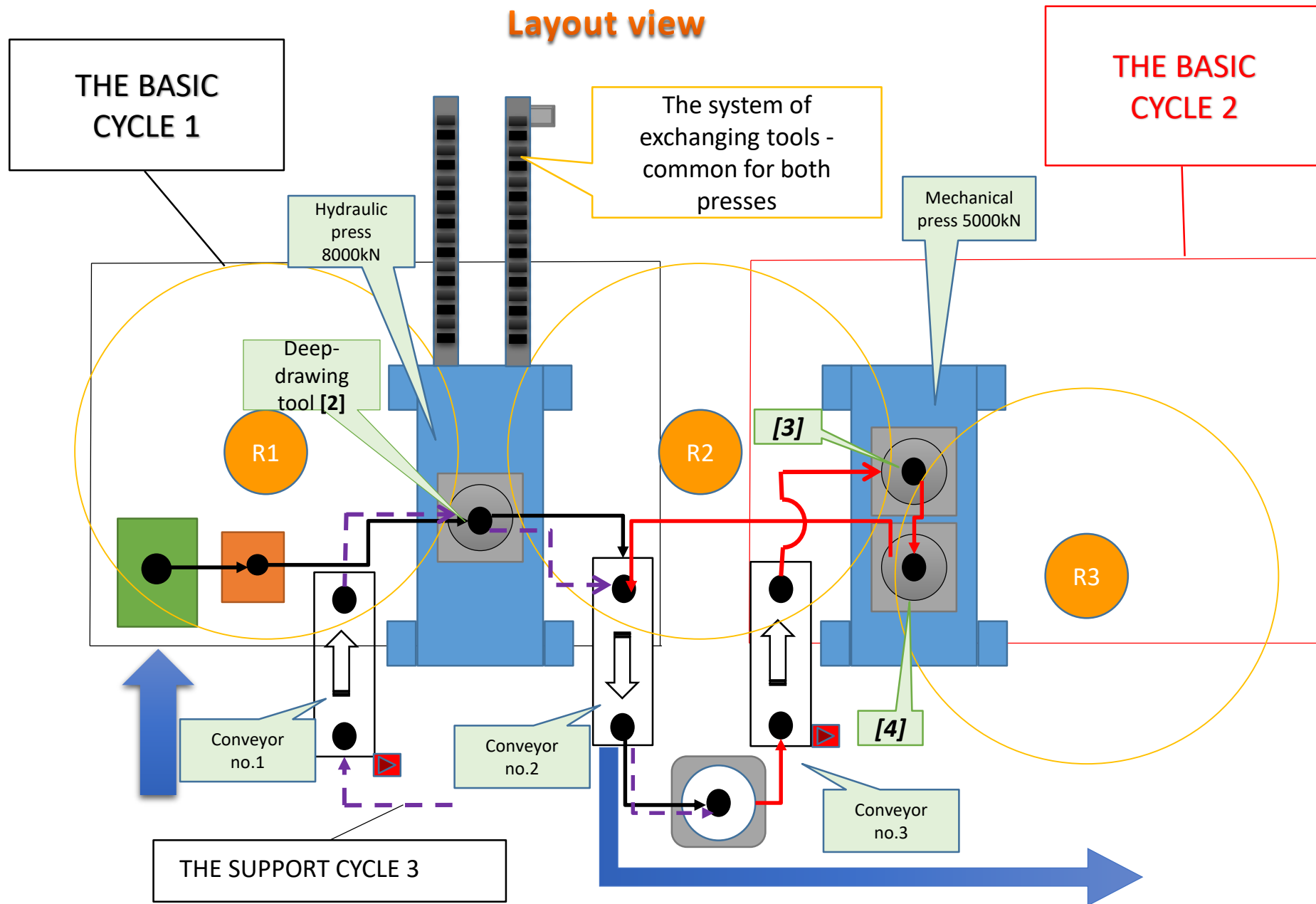


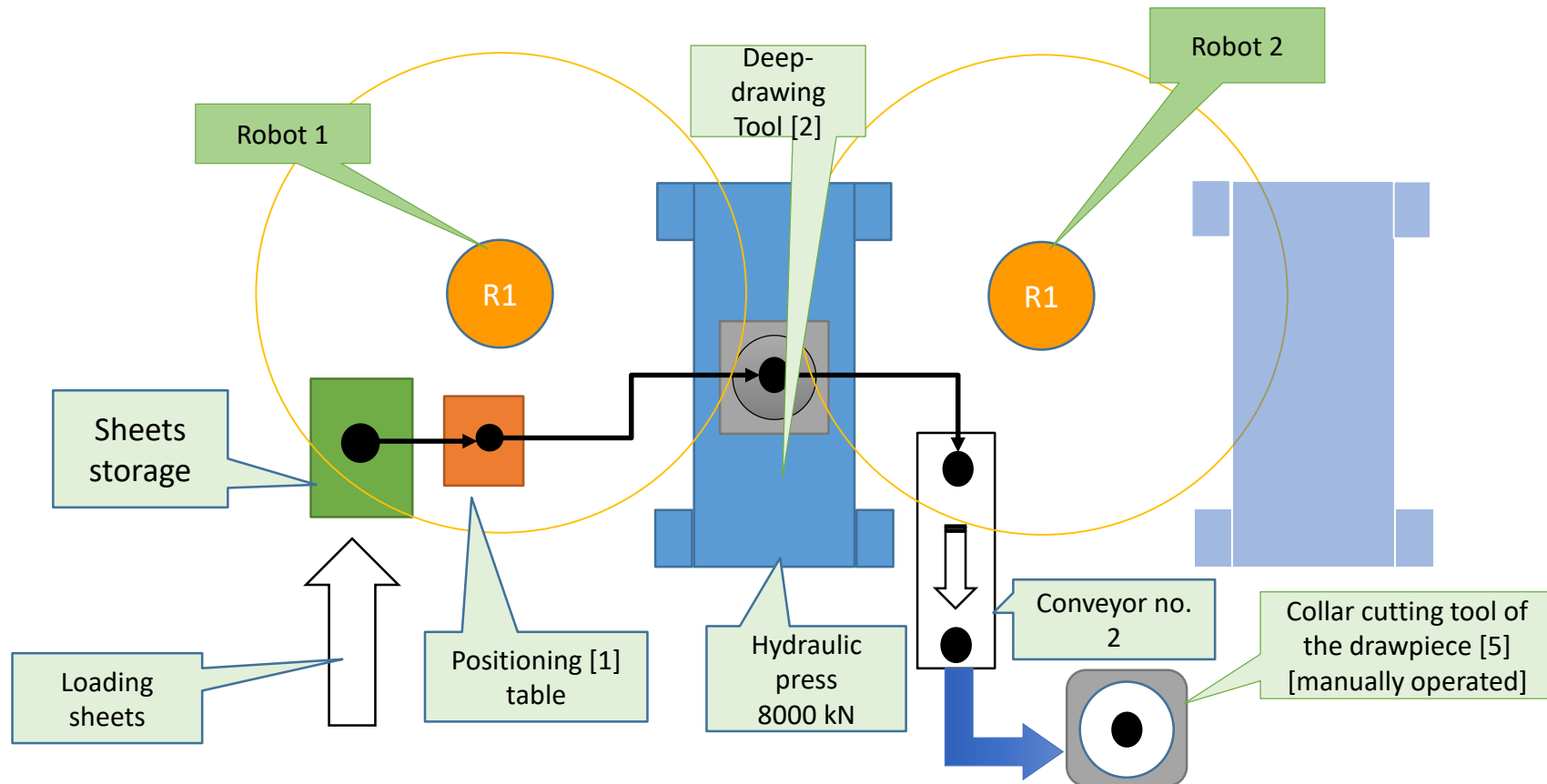
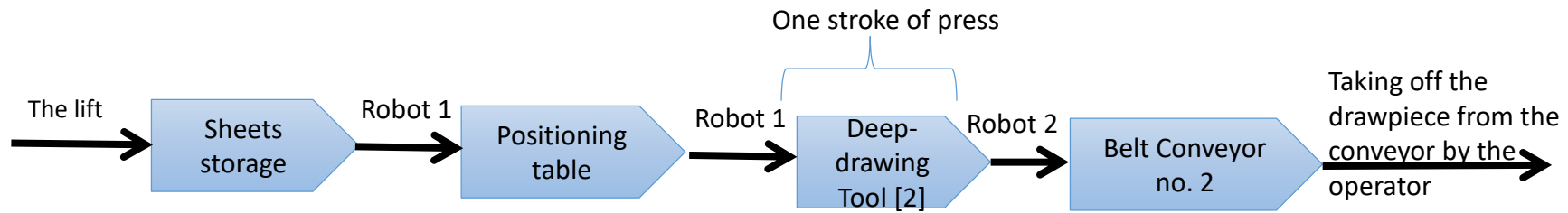
# LAYOUT

Technological process for parts FAN COVER

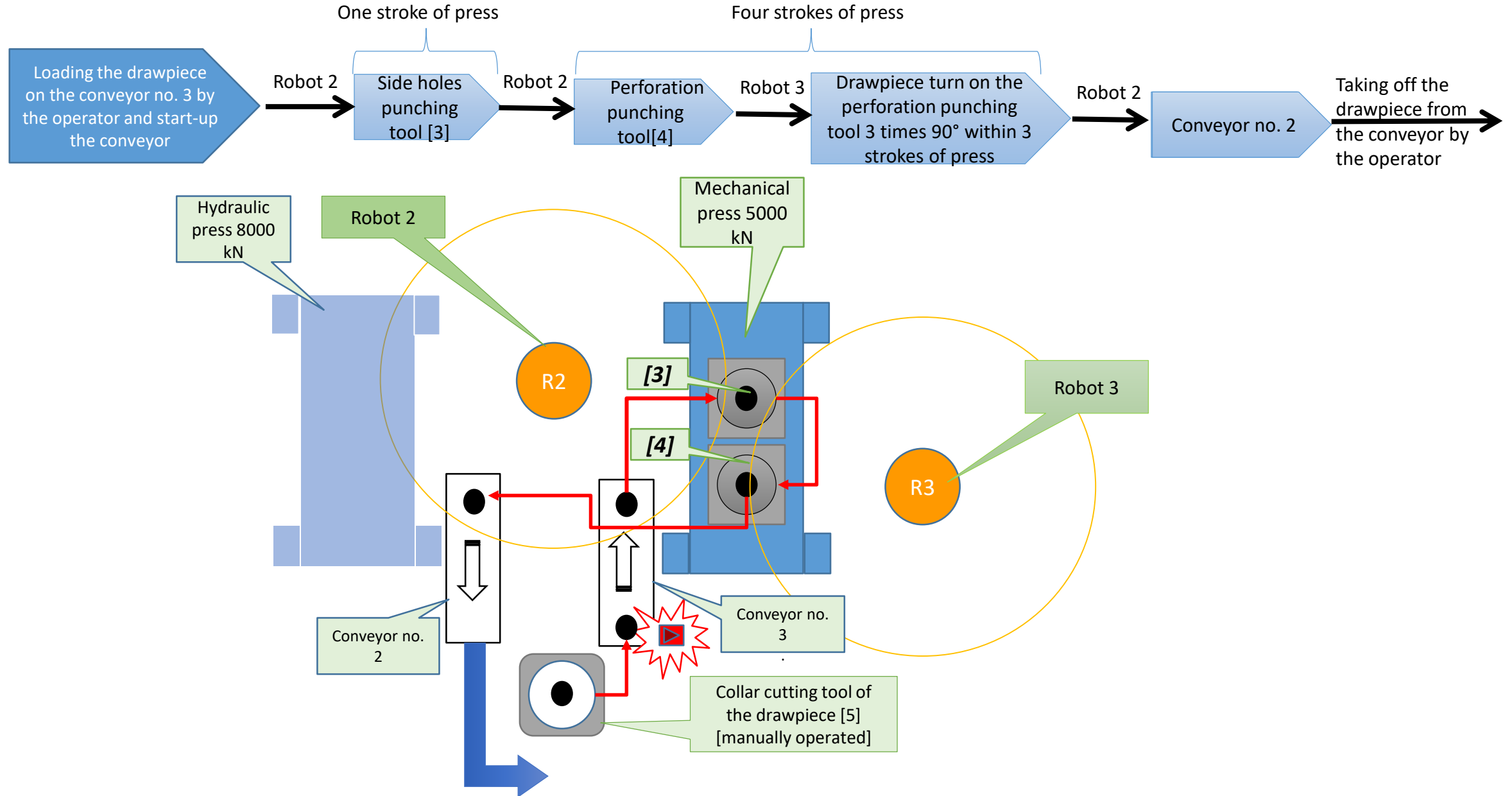
## Layout view



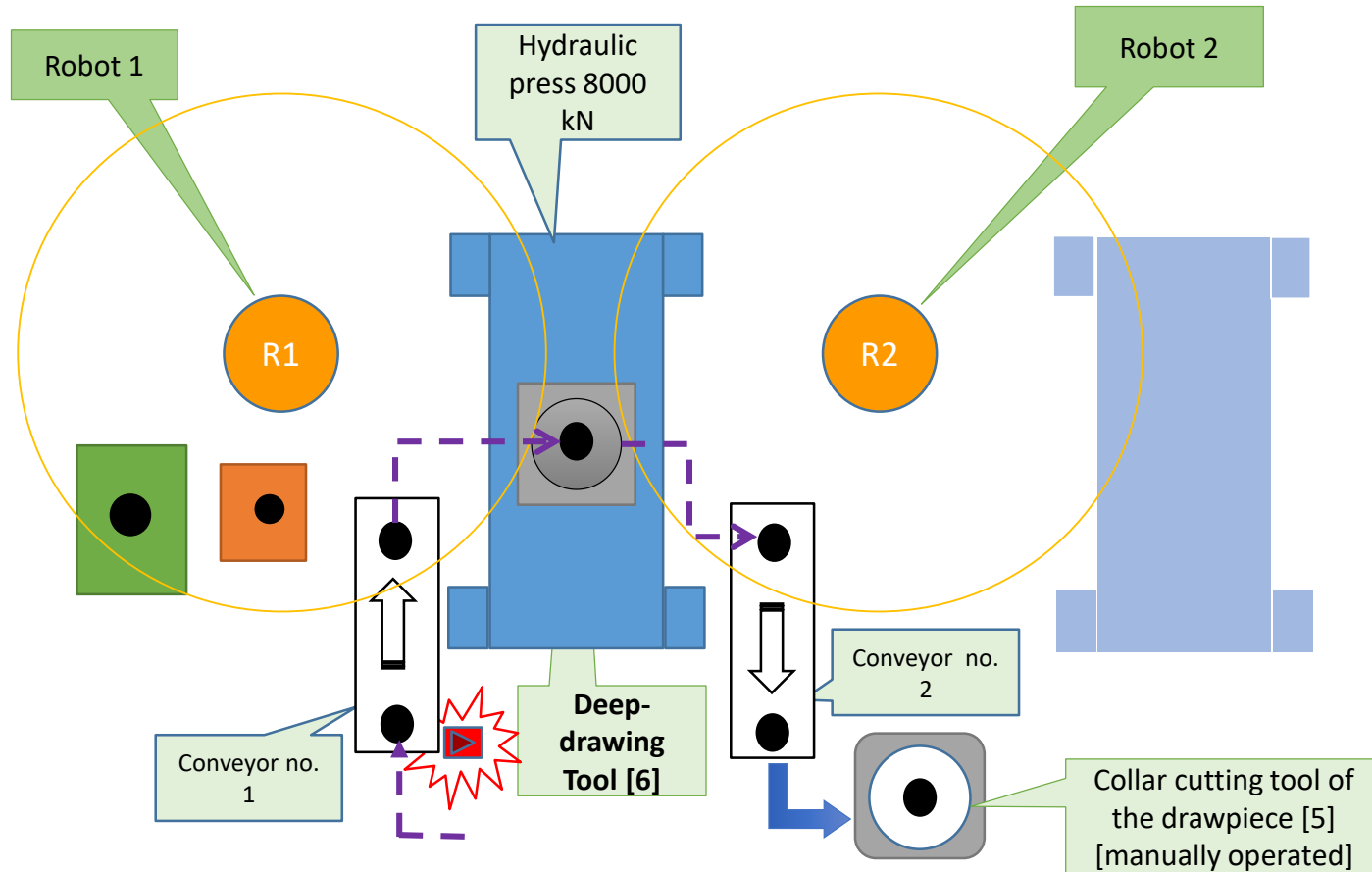
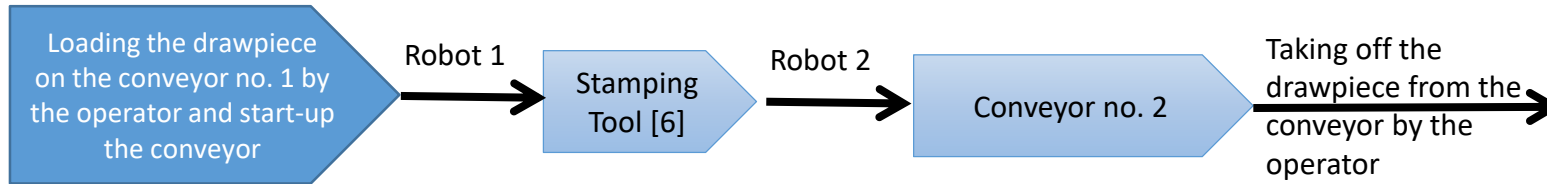
## BASIC CYCLE 1



## BASIC CYCLE 2

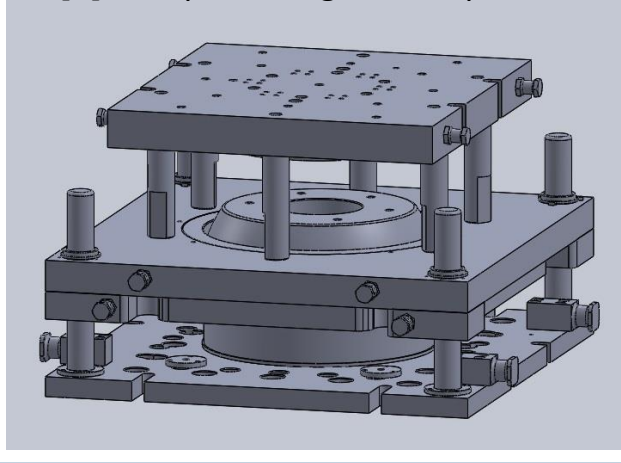


### THE SUPPORT CYCLE 3

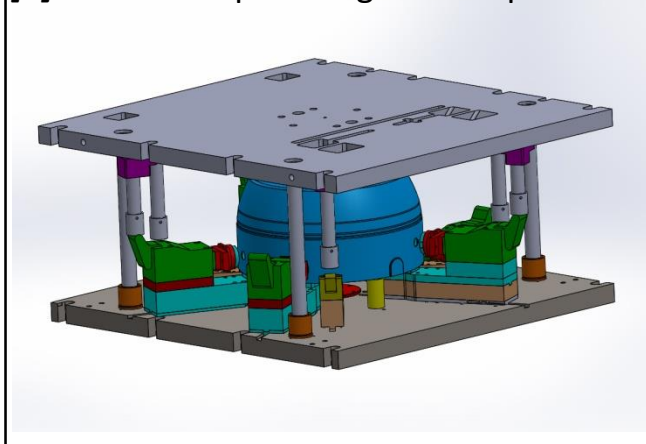


## Tools and selected schema elements

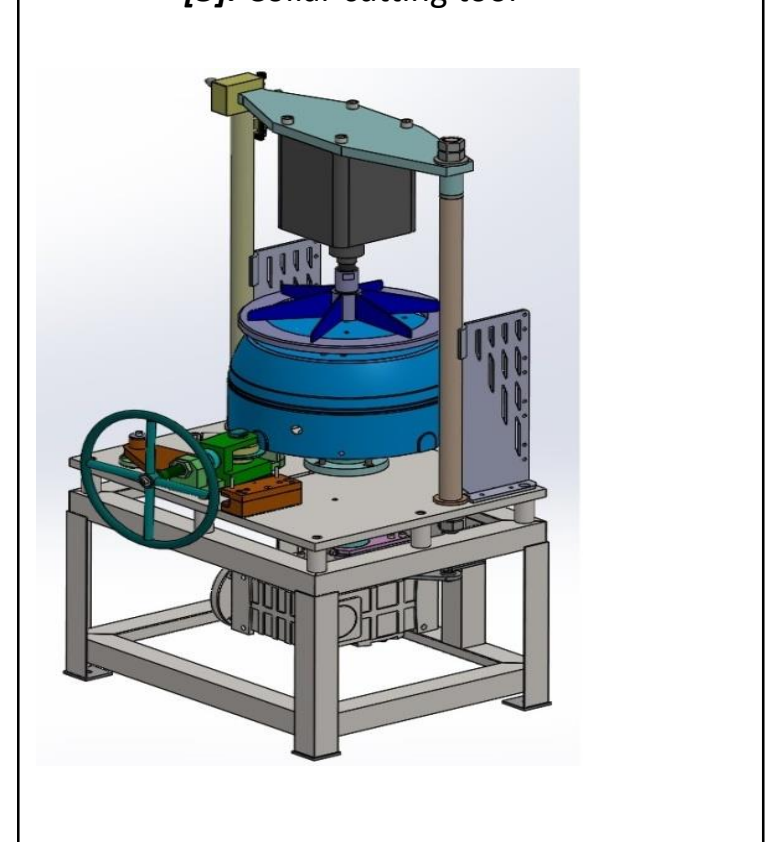
**[2].** Deep-drawing Tool - oper. 1



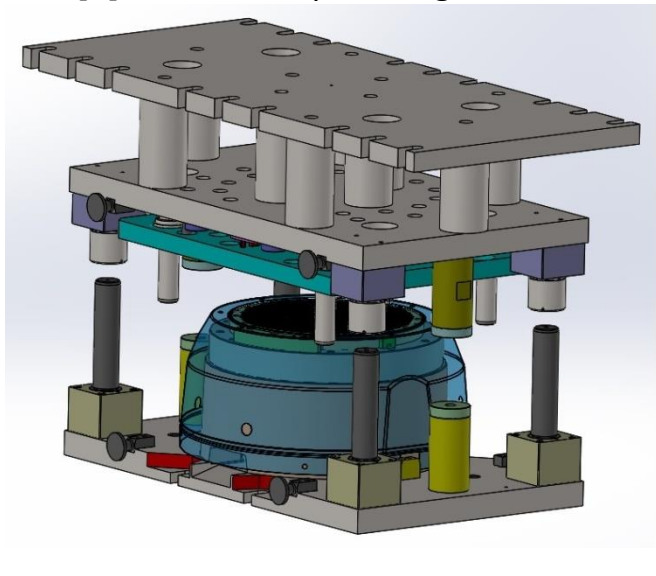
**[3].** Side holes punching tool – oper. 2



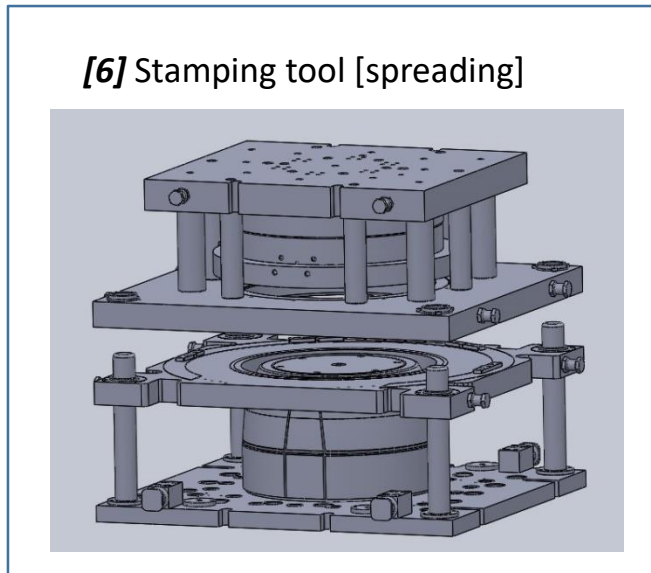
**[5].** Collar cutting tool



**[4].** Perforation punching tool



**[6]** Stamping tool [spreading]



## Tools and selected schema elements

**[1].** Table positionig of the sheet

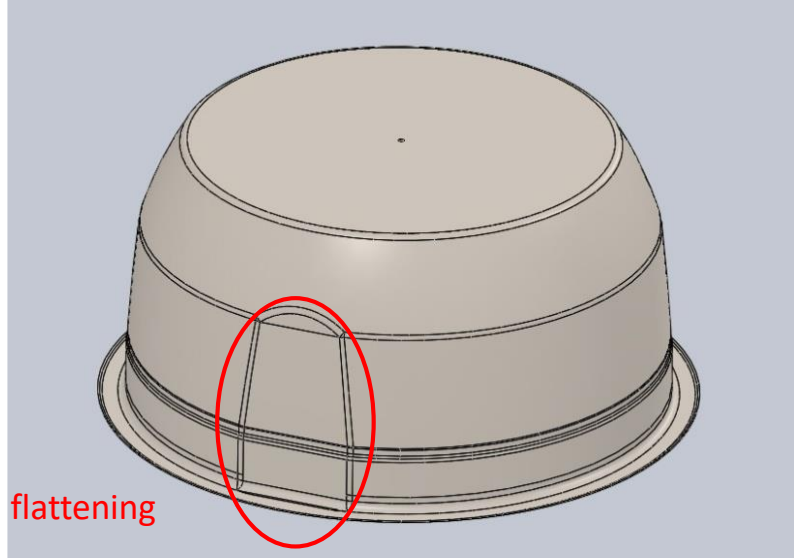


**[7]** Conveyor

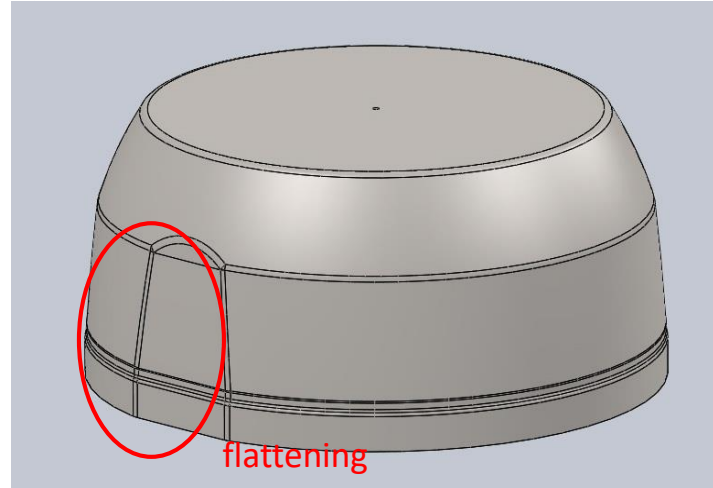


## THE DRAWPIECES

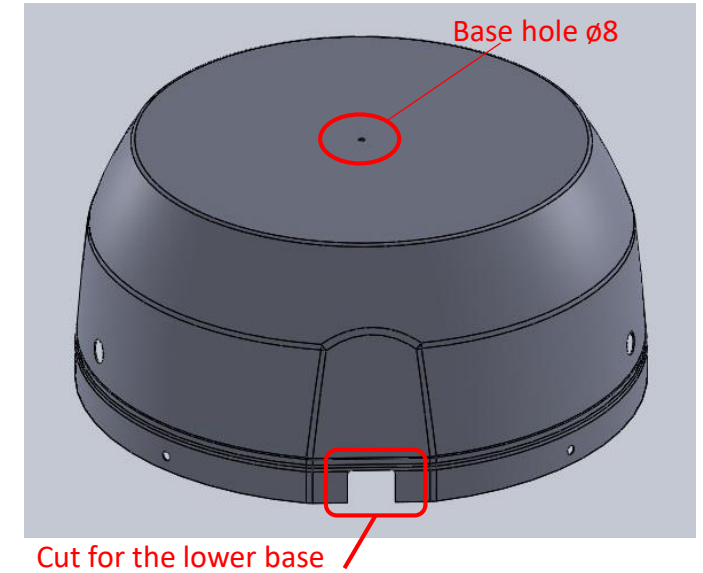
**Fig.1** The drawpiece after the first operation of the deep-drawing



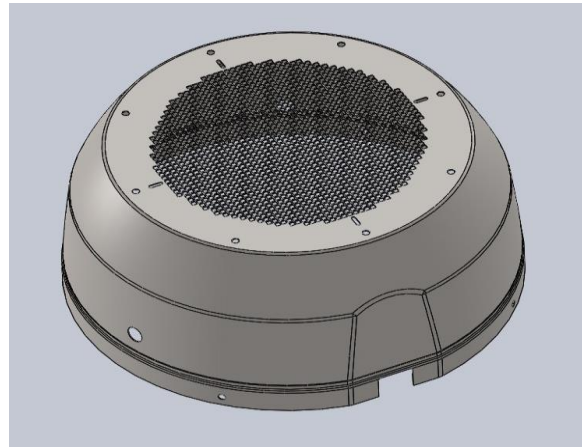
**Fig.2** The drawpiece after collar cutting operation 2 – showing the base of operation for punching side holes.



**Fig.3** The drawpiece after punching side holes operation 3 – showing the base for the operation of punching in the first assumption

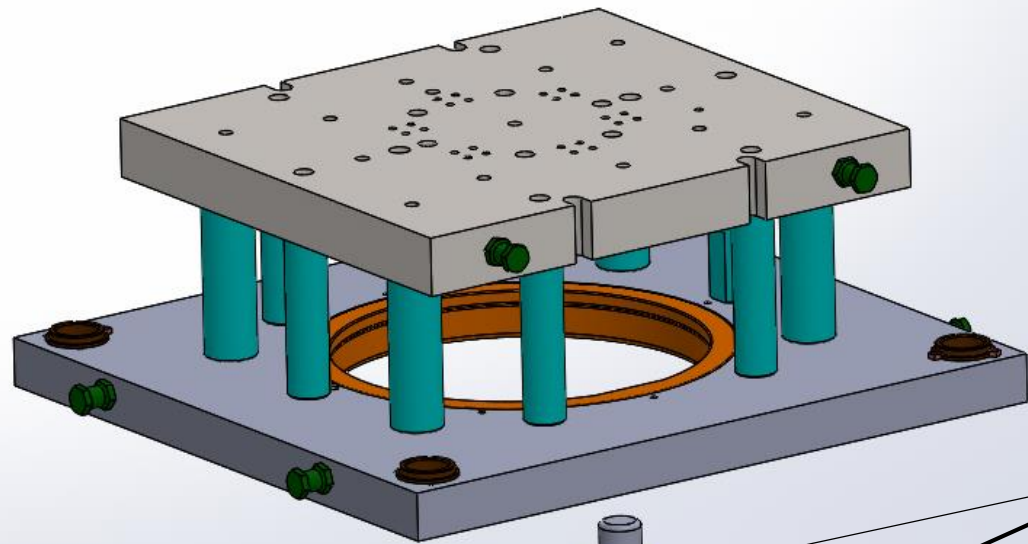


**Fig.4** The drawpiece after perforation

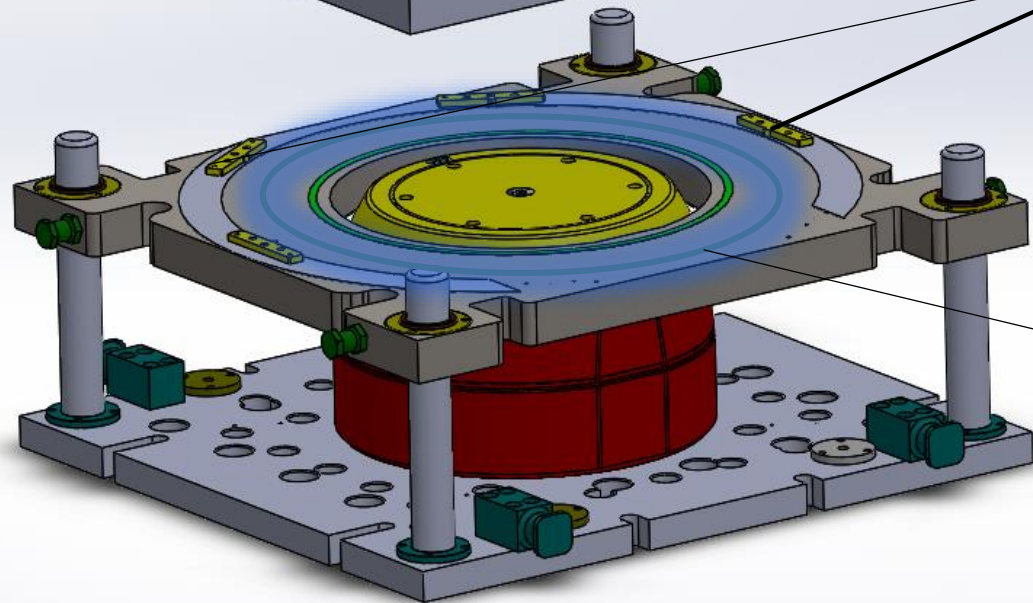




## The basing sheet on the deep-drawing tool [2]- basic cycle 1



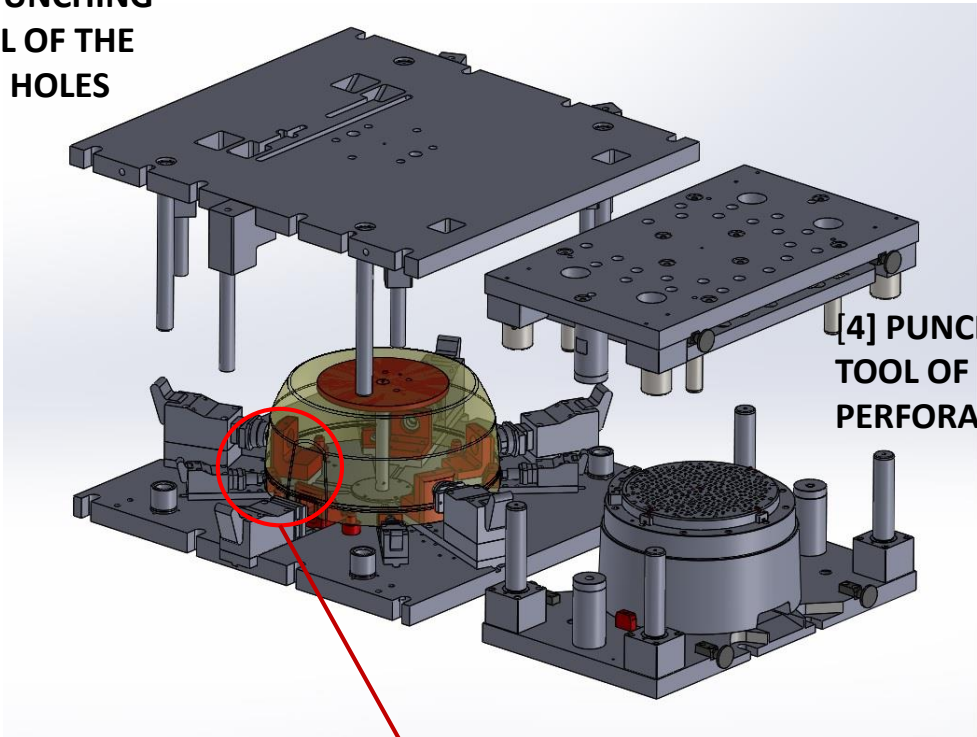
THE BASING SHEET  
WITH PLATE



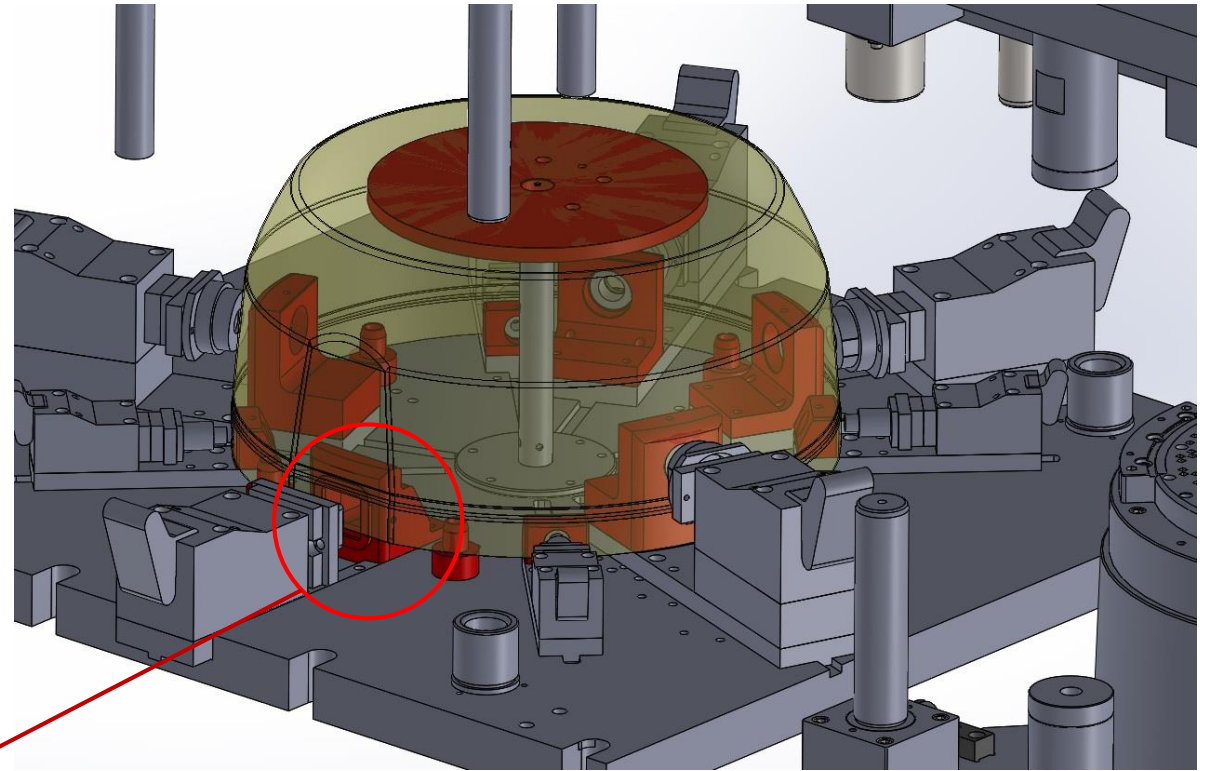
LUBRICATION AREA

## The drawpiece base on the side holes punching tool [3] – basic cycle 2

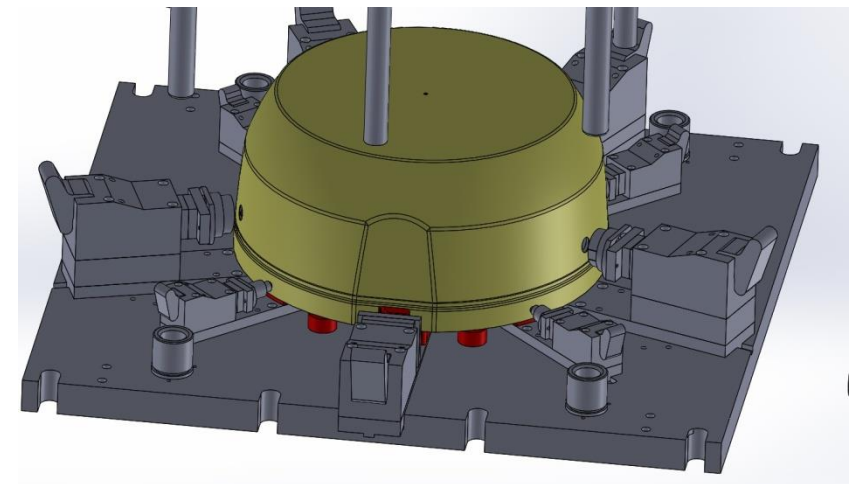
[3] PUNCHING  
TOOL OF THE  
SIDE HOLES



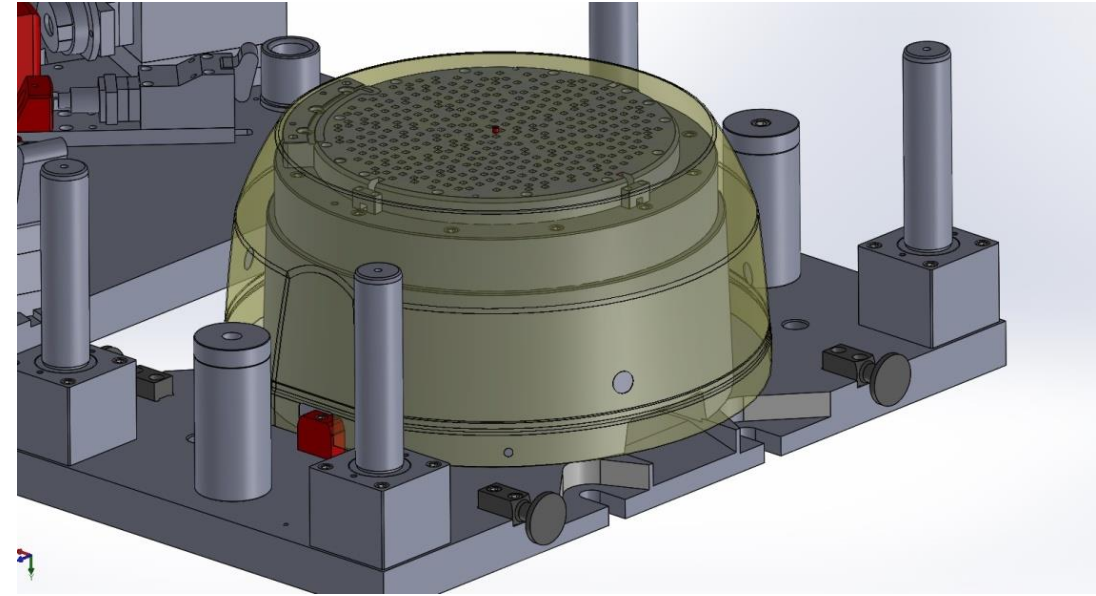
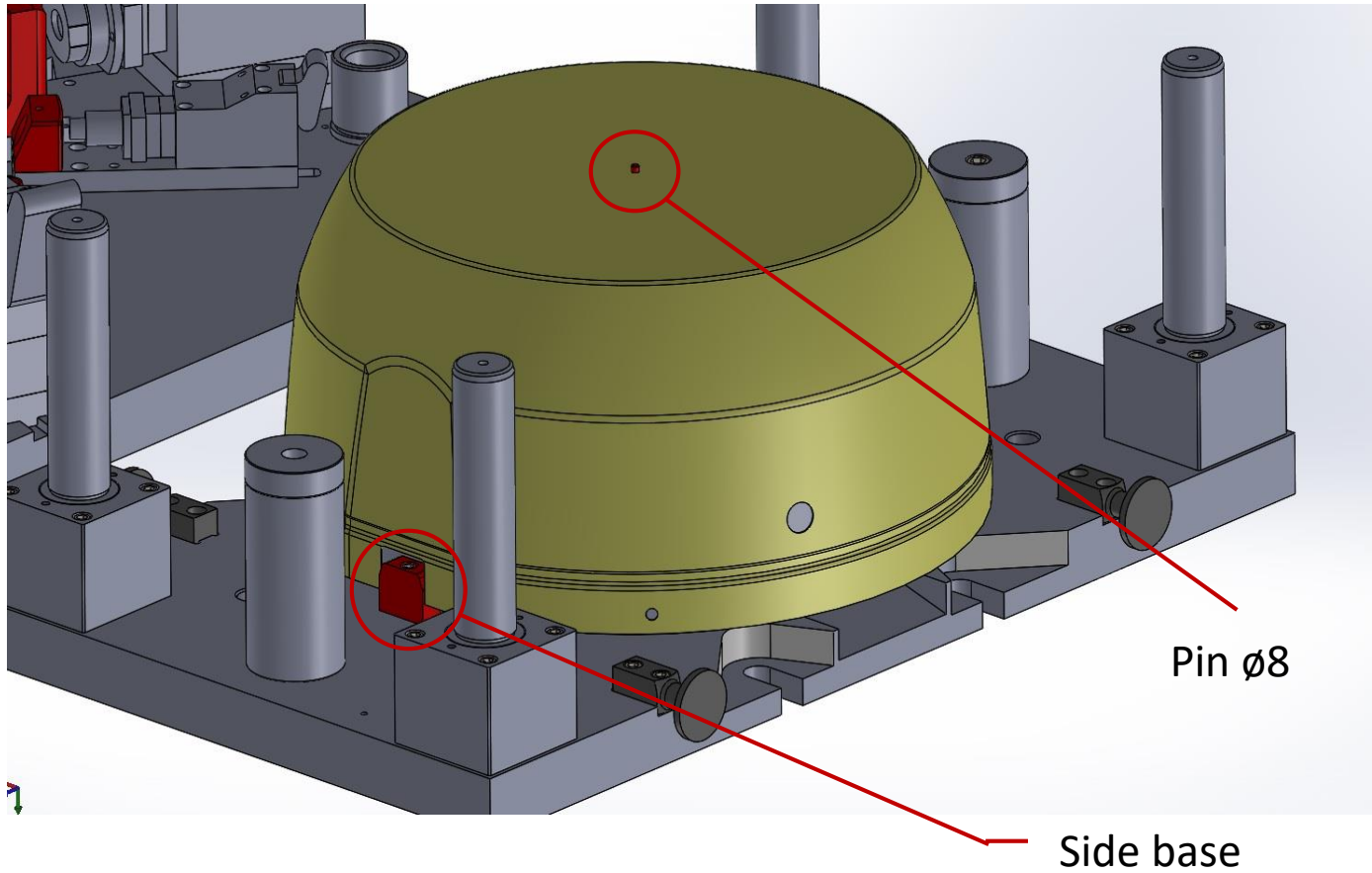
[4] PUNCHING  
TOOL OF THE  
PERFORATION



PLACE OF BASE OF THE FLATTENING

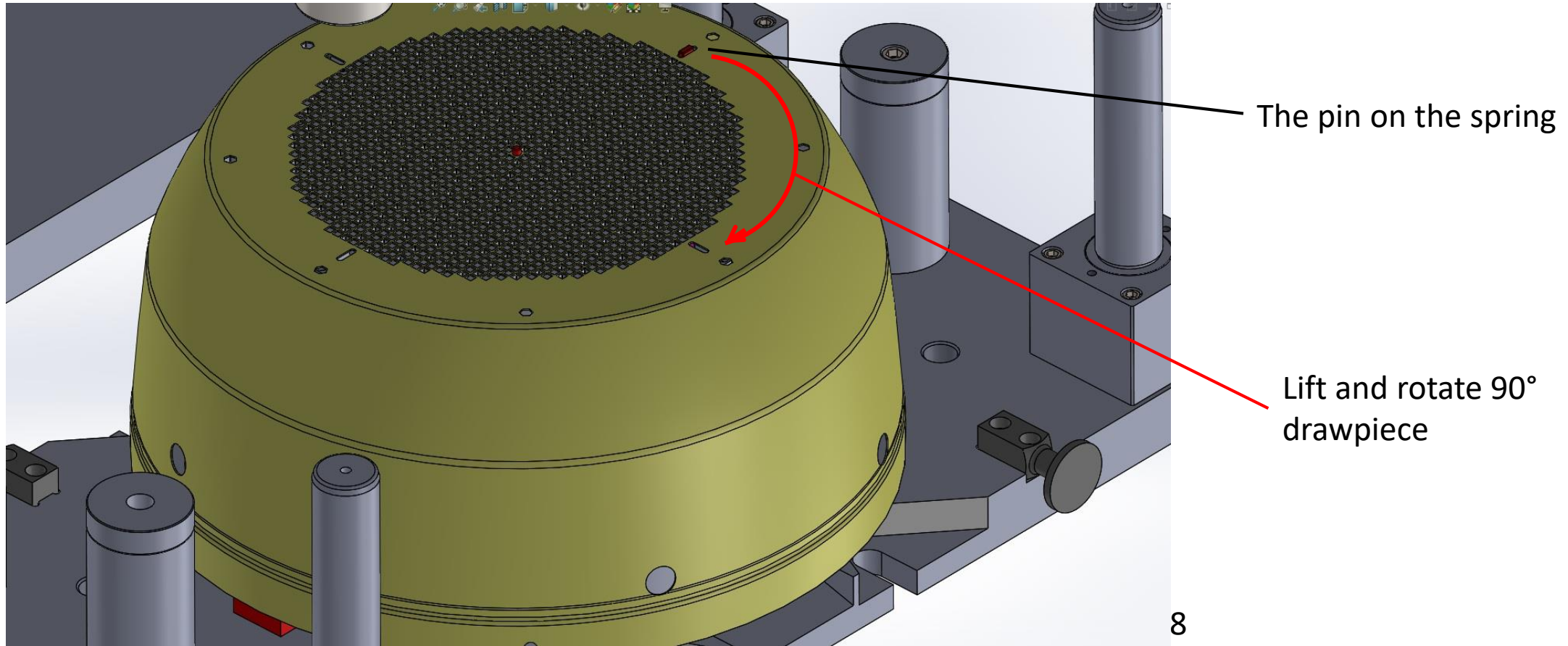


## The drawpiece base on the perforation punching tool [4]- in the first assumption – basic cycle 2

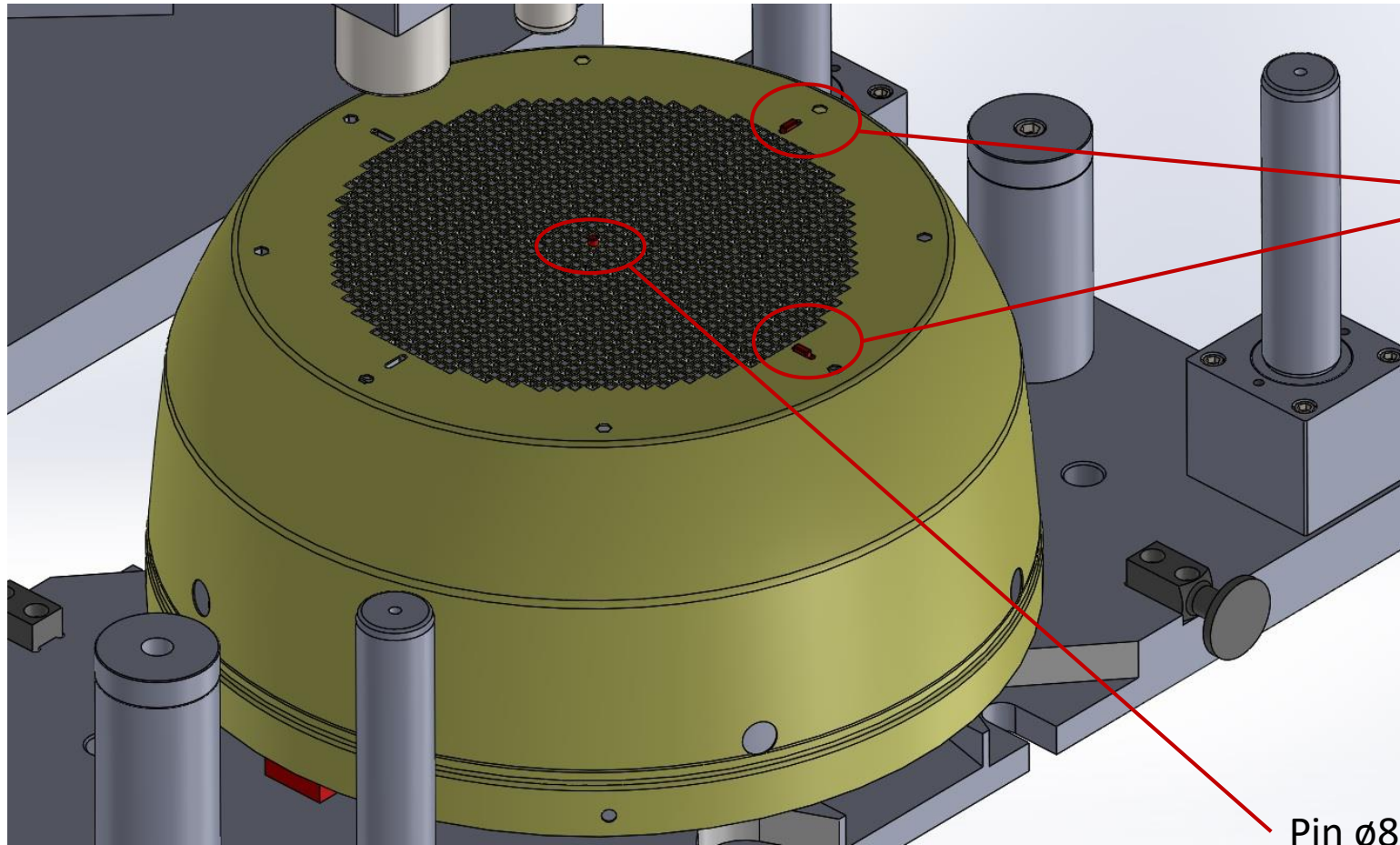




## The drawnpiece base on the perforation punching tool [4]- in the second assumption – basic cycle 2



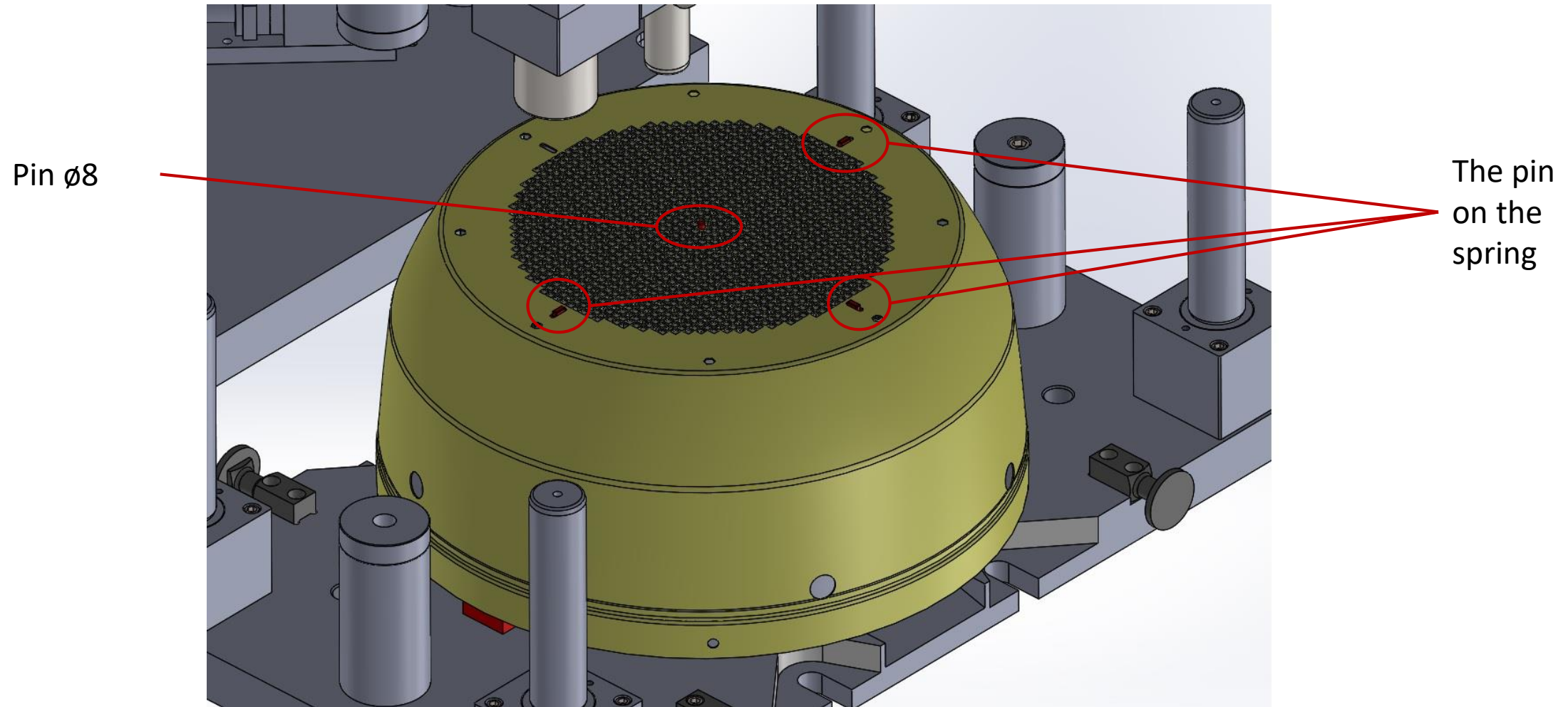
**The drawpiece base on the perforation punching tool [4]- in the third assumption– basic cycle 2**



The pin on the spring

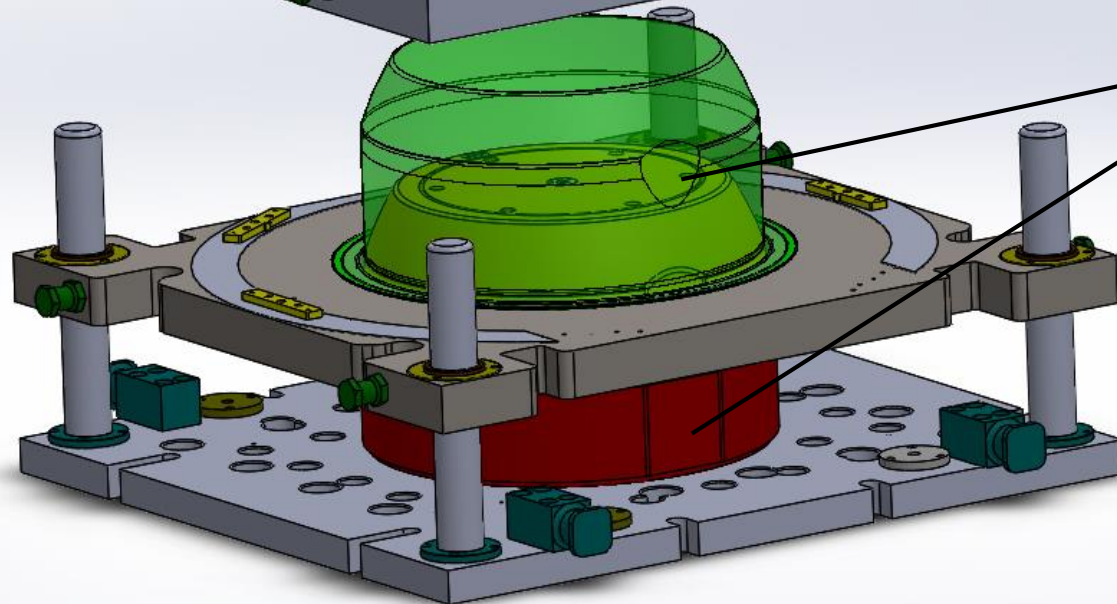
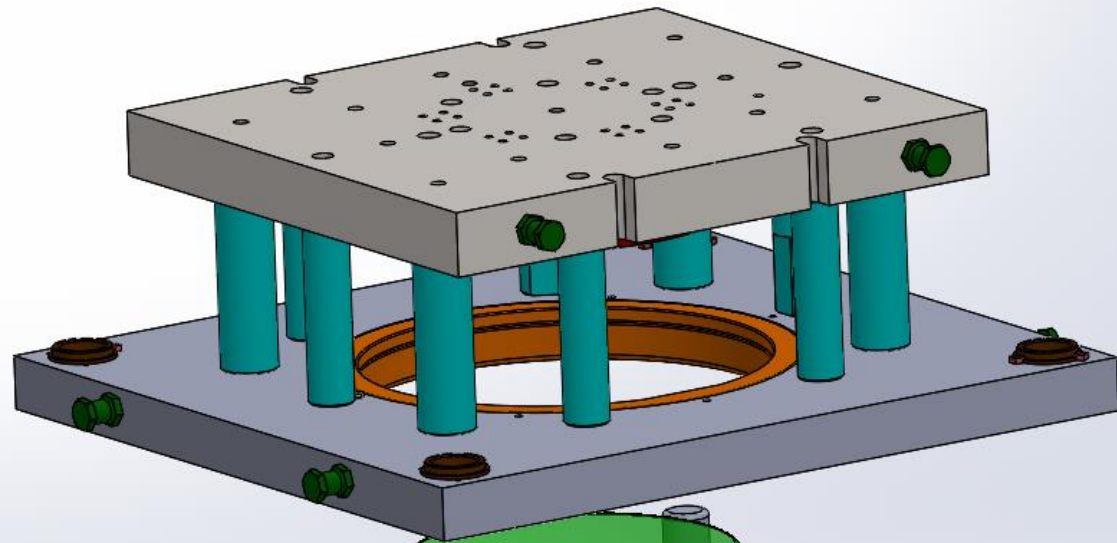
Pin ø8

**The drawpiece base on the perforation punching tool [4]- in the fourth assumption – basic cycle 2**



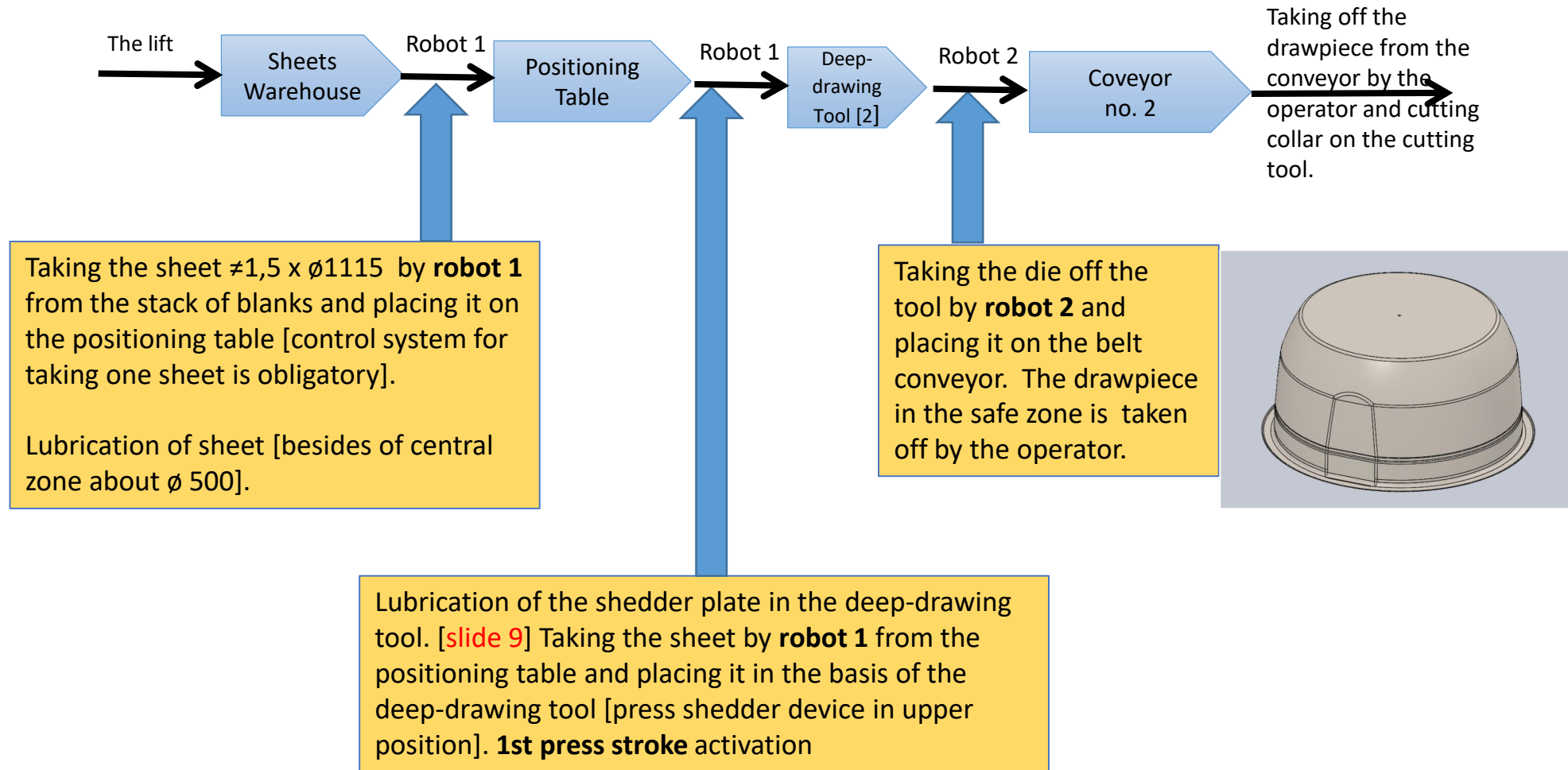


### The drawpiece base on the deep-drawing tool [6]- support cycle 3



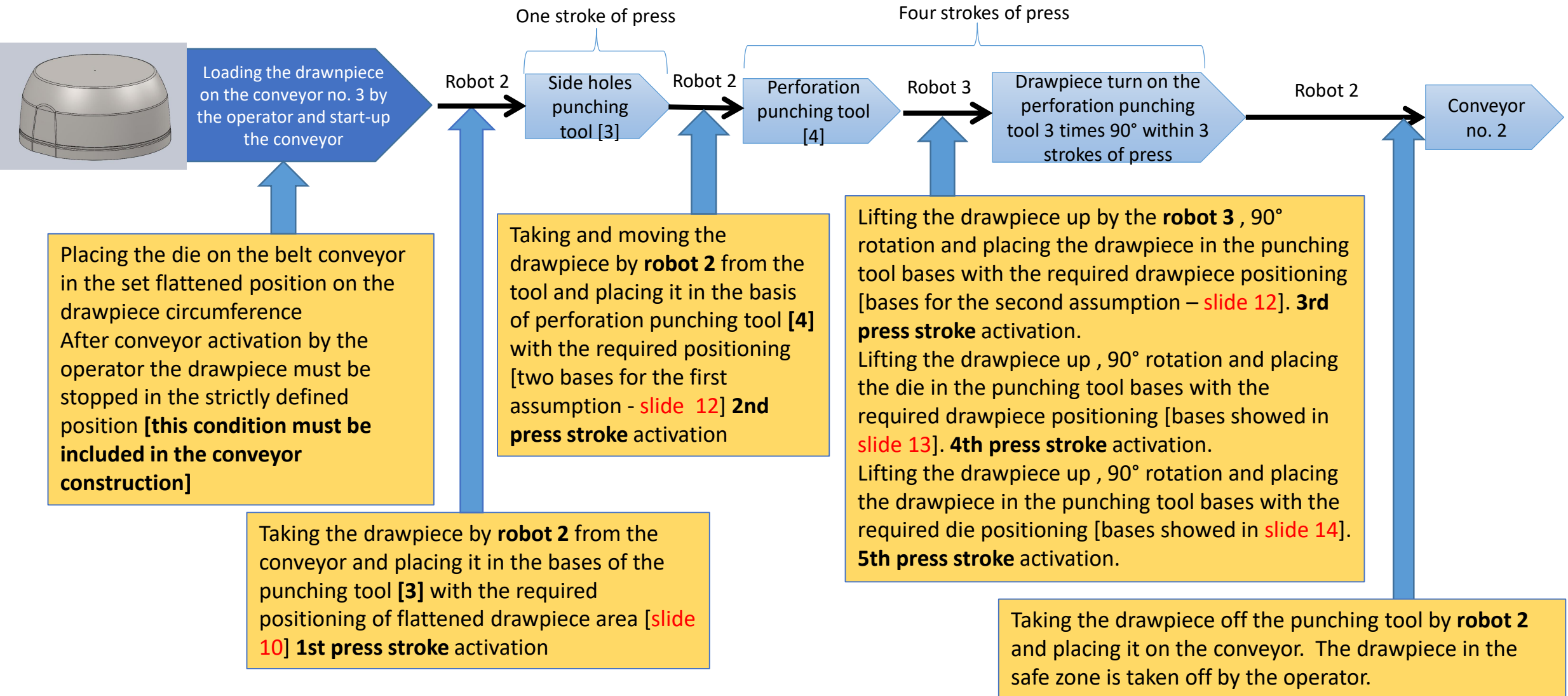
PLACE OF DRAWPIECE  
FLATTENING SET IN  
PLACE OF THE  
FLATTENING OF THE  
PUNCH

## CYCLE 1 DESCRIPTION





## Cycle 2 description



Technological line contractor will together with Firma Tarapata agree on the equipment of tools with necessary sensors and instalations.

## Cycle 3 description

