## LAYOUT

Technological process for parts FAN COVER


## BASIC CYCLE 1



## BASIC CYCLE 2



THE SUPPORT GYGLE 3



## Tools and selected schema elements


[4].Perforation punching tool


## Tools and selected schema elements



## THE DRAWPIECES



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 drawplece base on the side holes punching tool [3] - basic cycle 2


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


The drawnplece 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 drawplece base on the perforation punching tool [4]- in the fourth assumption - basic cycle 2

Pin $\varnothing 8$


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



## GYCLE 1 DESCRIPTION



Taking the die off the tool by robot 2 and placing it on the belt conveyor. The drawpiece in the safe zone is taken off by the operator.

Taking the sheet $\neq 1,5 \times \varnothing 1115$ by robot 1 from the stack of blanks and placing it on the positioning table [control system for taking one sheet is obligatory].

Lubrication of sheet [besides of central zone about $\varnothing 500$ ].


Taking off the drawpiece from the conveyor by the operator and cutting collar on the cutting tool.

Lubrication of the shedder plate in the deep-drawing tool. [slide 9] Taking the sheet by robot $\mathbf{1}$ from the positioning table and placing it in the basis of the deep-drawing tool [press shedder device in upper position]. 1st press stroke activation


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

## Cycle 3 description



Taking the drawpiece by robot 1 off the conveyor and placing it in the bases of the stamping tool with the required positioning of flattened drawpiece area [slide 15] Press shedder in lower position by 120 mm . 1st press stroke activation

