

## Machining of helmets



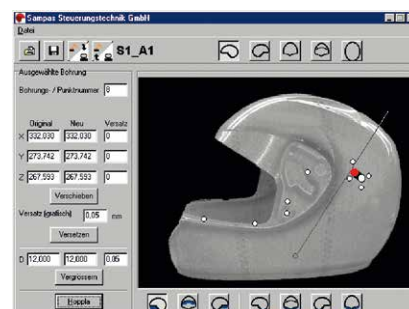
### Task:

Machining of helmet domes, e.g. motorcycle, firefighting or work safety helmets.

- Drilling of holes, openings
- Cutting out the visor section
- Trimming the collar

### Our solution:

A robot controls a milling spindle and produces holes of different bore sizes by moving correspondingly. The helmet is placed in the chucking device. The factory worker closes the window by pressing a button and enables the robot for machining. The robot machines the helmet dome. After machining, a pneumatic sliding window is opened by the robot. The factory worker removes the helmet. A second helmet can be machined simultaneously during the loading process.



## Your benefits:

- + Easy amendment of bore hole positions by PC correction interface
- + Flexible hole positions and bore diameters
- + Complete machining in one or two chucks
- + Any desired contour can be realised

**Machining of helmets**

**Technical details:**

<b>Tool</b>	1 HF milling spindle
<b>Weight</b>	2,500 kg
<b>Dimensions (L x W x H)</b>	4,500 mm x 4,000 mm x 2,800 mm
<b>Robot</b>	KUKA KR30/2
<b>Part variance</b>	up to 100 different hole patterns
<b>Maximum cutting speed</b>	2 m/sec.

**We provide ready to use robot systems  
and automation solutions:**



**Processing:**

Deburring
Milling
Grinding
Stroke filing
Polishing



**Assembly:**

Assembling
Screwing
Shrinking
Pressing
Glueing



**Handling:**

Picking up
Stacking
Insertion
Removal
Placing

**Everything from a single source:**

Thanks to our integration into the **Pütz Group** and the resulting **synergy effects**, we are able to offer you not just robot systems and automation solutions, but also the appropriate test technology to test surfaces for dimensional accuracy.

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