



CUSTOMER REFERENCE

Metal spinning with NECURON® 1300

Customer:	Abacus Maschinenbau GmbH, Osnabrück, Germany
Products used:	NECURON® 1300
Branch:	Metal industry
Application:	Production of rotationally symmetrical hollow parts

1. ISSUE

Production of rotationally symmetrical hollow parts in small and medium lot sizes such as:

- a. Pots, jugs, kettles
- b. Works of art and ornaments such as vases and cups
- c. Parts of container and plant construction such as container bottoms and gas cylinders
- d. Inlet rings and nozzles in aerospace engineering
- e. Lampshades and reflectors
- f. Car rims

2. SOLUTION

During pressing, a circular sheet metal blank (up to 1mm thickness) is clamped in front of the face of a spinning mandrel. The spinning mandrel represents the geometry of the component as an internal shap (forming tool). This tool was made out of NECURON® 1300 by the company Abacus.

The tool is set in rotation together with the sheet metal blank. The forming takes place in several stages using a spinning tool e.g. from steel which is moved in several steps from the center to the edge and back again.

During this process, the sheet metal approaches the contour of the tool from NECURON® 1300 step by step.

3. ERGEBNIS

The process is very flexible and allows materials to be deformed which are not or only very difficult to form. By using the NECURON® 1300 as a tool, the company has great potential for savings by reducing material costs and milling times.

NECURON® 1300 is characterized by very good machinability, edge stability and surface quality and is also very pressure-resistant.



NECURON® 1300

BLOCK MATERIAL - CASE STUDY

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APPLICATION IMAGES

