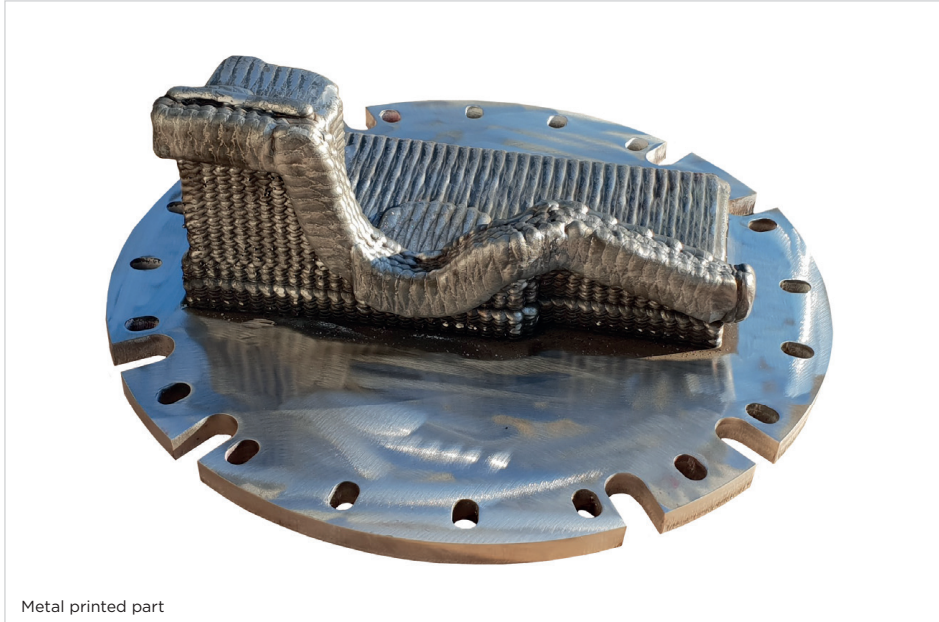
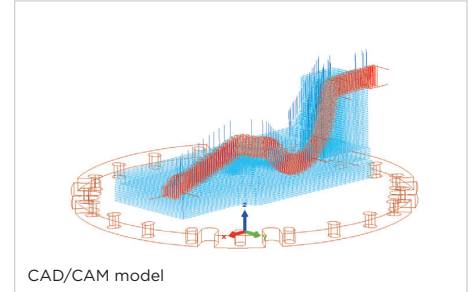


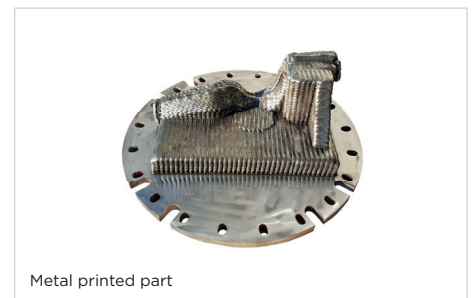
# SHEET METAL CUTTING AND FORMING TOOL FROM THE AUTOMOTIVE INDUSTRY



Metal printed part



CAD/CAM model



Metal printed part

## INFORMATION ON THE COMPONENT PART

- Production of the base body from 1.4316 and the blade from 1.4718 (HRC 55) in one production step
- Conventional manufacturing technology: casting & milling
- Problems with the procurement:
  - Long delivery times of the cast part
  - Many production steps
  - During the development many adjustments are made, which have to be implemented quickly
  - Short procurement time is a requirement for a short development phase

## ALTERNATIVES TO THE CASTING PROCESS / 3DMP®

- Fast and flexible procurement of the near-net shape blank as required
- Saving of manufacturing steps (e. g. hardening)
- Shortening of the required turning/milling time

## MILLING FROM SOLID

- Very high chip volume - high costs of milling
- High storage costs of geometry-dependent wrought material
- Long delivery times of wrought material
- High utilization of turning/milling centers

## TECHNICAL DATA

**Machine:**  
arc405

**Dimension [mm]:**  
L = 283 | H = 123 | B = 145

**Wire:**  
1.4316 | Ø 1,0 mm  
1.4718 | Ø 1,0 mm

**Printing mass:**  
1.4316 | 14,1 kg  
1.4718 | 1 kg

**Printing time:**  
8,50 h

## BENEFITS OF 3DMP®

- ⏱ Reduction of manufacturing time
- 💰 Cost savings
- 📦 Small units
- 🔪 Material savings
- ⚡ Fast customization