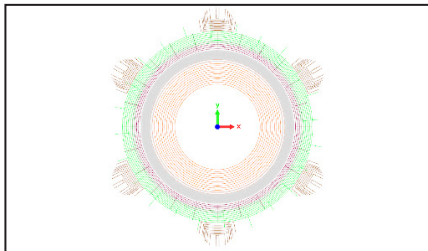




## WHEELSET BEARING COVER OF DEUTSCHE BAHN



CAD/CAM model



Metal printed part



Finished part

### INFORMATION ON THE COMPONENT PART

- Year locomotive 1964-1974
- Wheelset bearing cover on the list of missing parts of Deutsche Bahn
- List of missing part = prio list of parts relevant to availability; the absence of these parts can cause a vehicle downtime
- Conventional manufacturing technology: casting process
- Problems with spare parts requirement:
  - High minimum purchase quantities
  - Delivery times of the spare part: several months

### TECHNICAL DATA

**Machine:** arc405

**Dimension:**

$D_a = 382$  |  $D_i = 147$  |  $h = 70$

**Wire:** 1.4430 |  $\varnothing$  1,0 mm

**Printing mass:** 13,20 kg

**Printing time:** 7,00 h

### ALTERNATIVES TO THE CASTING PROCESS

#### 3DMP®

- Fast and flexible procurement of the near-net shape blank as required
- Shortening of the required turning/milling time

#### MILLING FROM SOLID

- High storage costs of wrought material
- Long delivery times of wrought material
- High utilization of turning/milling centers

### BENEFITS OF 3DMP®

-  Reduction of manufacturing time
-  Cost savings
-  Small units
-  Material savings

### ANY QUESTIONS?

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