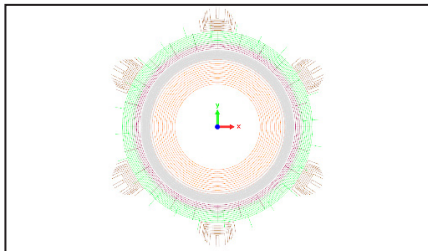




WHEELSET BEARING COVER OF DEUTSCHE BAHN



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 parts = 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

Dimensions [mm | inch]:

$D_a = 382$ | 15.0

$D_i = 147$ | 5.8

$H = 70$ | 2.8

Wire: 1.4430 | \varnothing 1.0 mm

Printing mass: 13.2 kg | 29.1 lb

Printing time: 7.00 h

ALTERNATIVES TO THE CASTING PROCESS


3DMP®

- Fast and flexible procurement of the near-net shape blank as required
- Reduction 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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