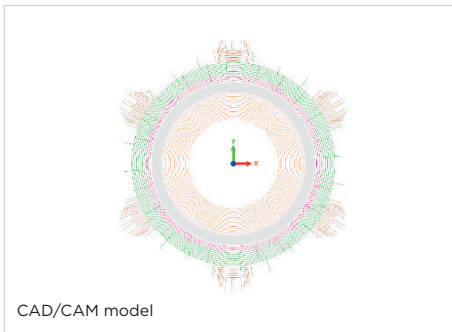


WHEELSET BEARING COVER OF DEUTSCHE BAHN



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

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

TECHNICAL DATA

Machine:
arc405

Dimension [mm]:
 $D_a = 382$ | $D_i = 147$ | $h = 70$

Wire:
1,4430 | $\varnothing 1,0$ mm

Printing mass:
13,20 k

Printing time:
7,00 h

BENEFITS OF 3DMP®

- 🕒 Reduction of manufacturing time
- 💰 Cost savings
- 📦 Small units
- 🔪 Material savings