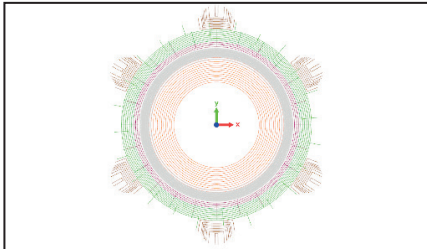




WHEELSET BEARING COVER OF DEUTSCHE BAHN



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

Wire: 1.4430 | \varnothing 1.0 mm

Printing mass: 13.2 kg

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?

GEFERTEC GmbH | Schwarze-Pumpe-Weg 16 | 12681 Berlin | Germany | +49 30 91 20 74 360 | info@gefertec.de | www.gefertec.de

Rolf Lenk GmbH | Dipl.-Ing (FH) Matthias Otte, M. Eng. | +49 4102 695 88 - 13 | mo@rolf-lenk.de | www.rolf-lenk.de