AIRCRAFT PHILIPP – SPAR

INFORMATION ON THE COMPONENT PART
- Component in approval
- Spar on Bombardier CRJ aircraft
  - Part of the powerplant suspension
- Class 1 component = the aircraft cannot take off if the component is missing
- Conventional manufacturing technology: chipping
- Problems with spare parts requirement:
  - High tool costs
  - Time-consuming roughing process
  - 96% chipping effort: titanium block: 36 kg → finished part: 2,5 kg

TECHNICAL DATA
Machine: arc603
Dimension:
L = 772 mm
W = 230 mm
H = 25,4 mm
Wire: Titanium | Ø 1,2 mm
Printing mass: 2,70 kg
Printing time: 2,25 h

ALTERNATIVES TO CHIPPING
3DMP®
- Shortening of the tooling costs
- Savings on roughing
- Shortening of the milling time
- Shortening of the Fly-to-Buy ratio from >10 to <2

ADVANTAGES OF 3DMP®
- Material saving
- Cost savings
- Shortening of Buy-to-Fly ratio