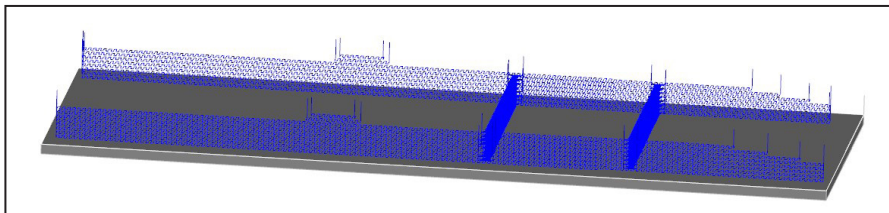




## AIRCRAFT PHILIPP – SPAR



CAM model

### 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

### FURTHER QUESTIONS?