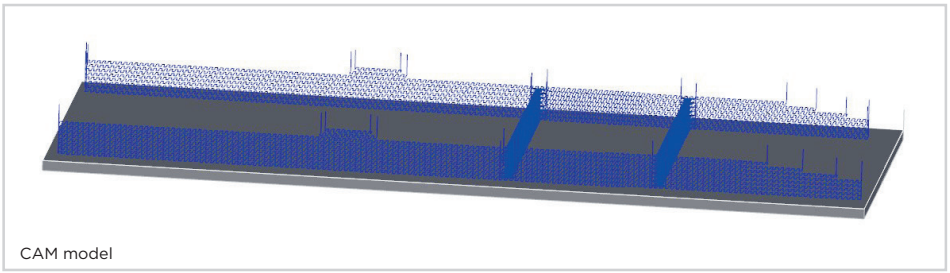
# AIRCRAFT PHILIPP – SPAR

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

## 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

## 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

## ADVANTAGES OF 3DMP®

- Material saving
- Cost savings
- Shortening of Buy-to-Fly ratio



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