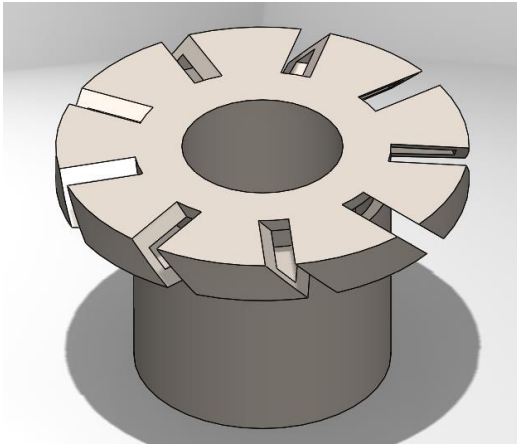


Hollow Flange



CAD model



Printed part



Machined part



Work Station



Finished part

Advantages of WAAM over Conventional machining:

- WAAM material removal savings vs. Machining: **92%**
- Hollow vs. Solid flange mass optimization: **53.3%**

TECHNICAL INFORMATION

Machine: ABB IRB 1600 + Fronius TPS 4000 + IRBP A positioner

Dimensions:

D = 165 mm H = 105 mm

Wire: ER70S-6, Ø 1.2 mm

Deposition Time: 8.9 h

Deposited Mass: 3.75 kg

BENEFITS OF WAAM:

- Cost savings
- Material savings
- Fast production rates
- Capability of printing complex designs

Alternatives to Milling process WAAM

- High deposition rates, flexible and short lead time to produce near net-shaped complex components.
- Repair, reverse engineering, prototype & topology optimization.
- Reduction in chip volume and milling time