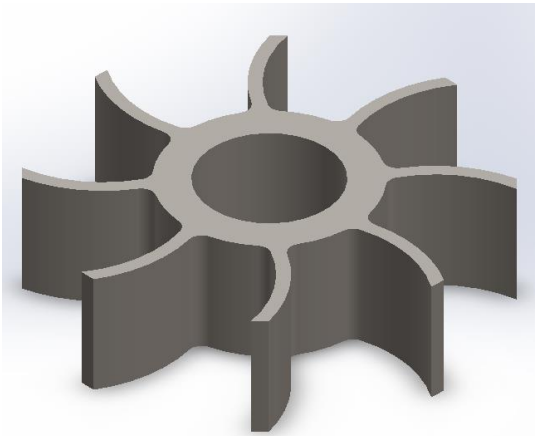


# Propeller



**CAD model**



**Printed part**



**Machined part**



**Work Station**



**Finished part**

## Advantages of WAAM over Conventional machining:

- WAAM material removal savings vs. Machining: **78.8%**
- Milling time reduction

## TECHNICAL INFORMATION

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

### Dimensions:

D = 165 mm H = 45 mm

**Wire:** ER70S-6, Ø 1.2 mm

**Deposition Time:** 4.5 h

**Deposited Mass:** 1.8 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