



Agenda

- Introduction
- Technical Feasibility
- Economics





SLM Solutions Worldwide











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SLM Machines Overview

Large System

Size

Mid

Compact Size

SLM 500



Highest
Performance for
Large Volume
Series Production

Build envelope: 500 x 280 x 365 mm

Laser: Twin (2x 400W or 2x 700W) fiber laser

Quad (4x 400W or 4x 700W) fiber laser

Build rate: up to 171 cm³/h^(a)

SLM 280 2.0



Standard for Scalable Production and Development Build envelope: 280 x 280 x 365 mm

Laser: Single (1x 400W or 1x 700W) fiber laser

Twin (2x 400W or 2x 700W) fiber laser

Build rate: up to 55 cm³/h^(a)

SLM 125



Production and Laboratory

Build envelope: 125 x 125 x 125 mm

Laser: Single (1x 400W) fiber laser

Build rate: up to 25 cm³/h^(a)

(a) Depending on material and build part geometry



○ SLM Solutions: Metal AM for Industrial Part Production











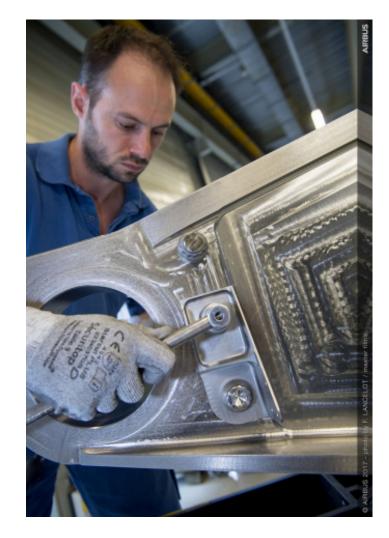








Technical Feasibility: Established













Images: Airbus, Relativity, GE Power

Challenges for Turbines

...that an equipment OEM needs to deal with...

- Size of Machines
- Build Rate of Machines
- Competitive Materials



Machine Size Challenge



SLM800

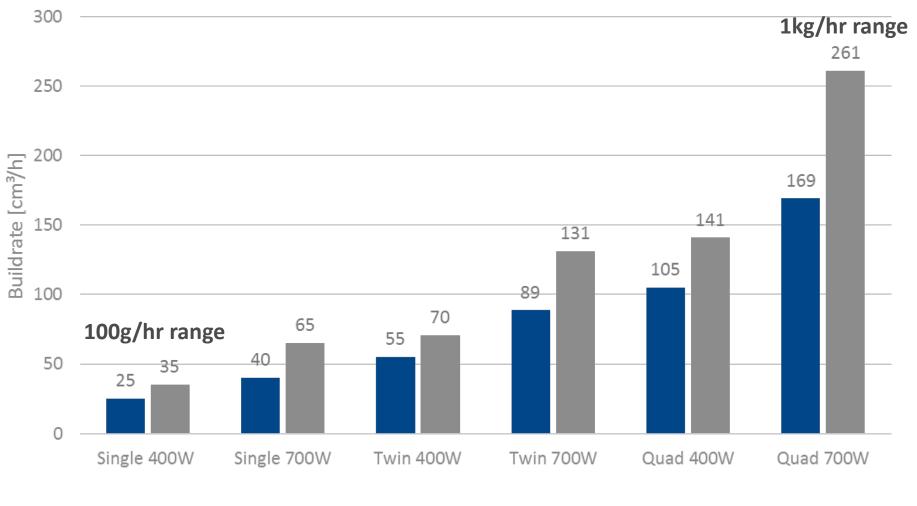
500 x 280 x 800 mm

~1kg/hr

Debut at formnext Nov 14th



Build Rate Challenge



- Reale Aufbaurate (Aluminium)
- Theoretische Aufbaurate (Aluminium)



Materials Challenge

- New superalloys with >IN718 performance
- Single-Crystal Nibase superalloys
- New high fatiguestrength aluminum alloys

