EWF 25TH ANNIVERSARY
13 - 17 NOVEMBER 2017 OEIRAS, PORTUGAL

LASIMM

Oeiras, November 15th 2017

Eurico Assunção, EWF

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This project has received funding from the European Union's HORIZON 2020 research and innovation programme under grant agreement No 723600.

FoF-01 Call

H2020-IND-CE-2016-17

4 868 262,50 €

FOF-01-2016

36 MONTHS

Large Additive Subtractive Integrated Modular Machine

1ST OCTOBER 2016

LASIMM

Consortium

Helmholtz-Zentrum Geesthacht
Zentrum für Material- und Küstenforschung

BAE SYSTEMS
INSPIRED WORK

Foster + Partners

Cranfield University

Vestas

EWF
EUROPEAN FEDERATION FOR WELDING, JOINING AND CUTTING

LOXIN

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AUTODESK

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automation for every nation

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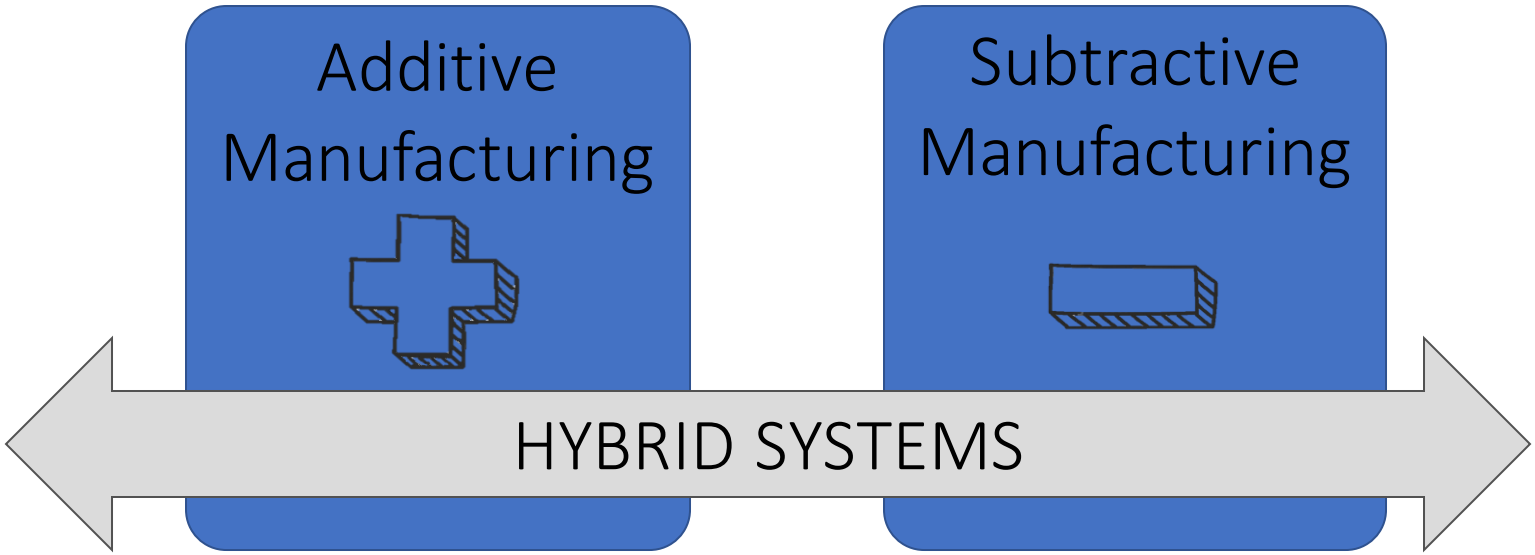
FoF

Introduction to the Project



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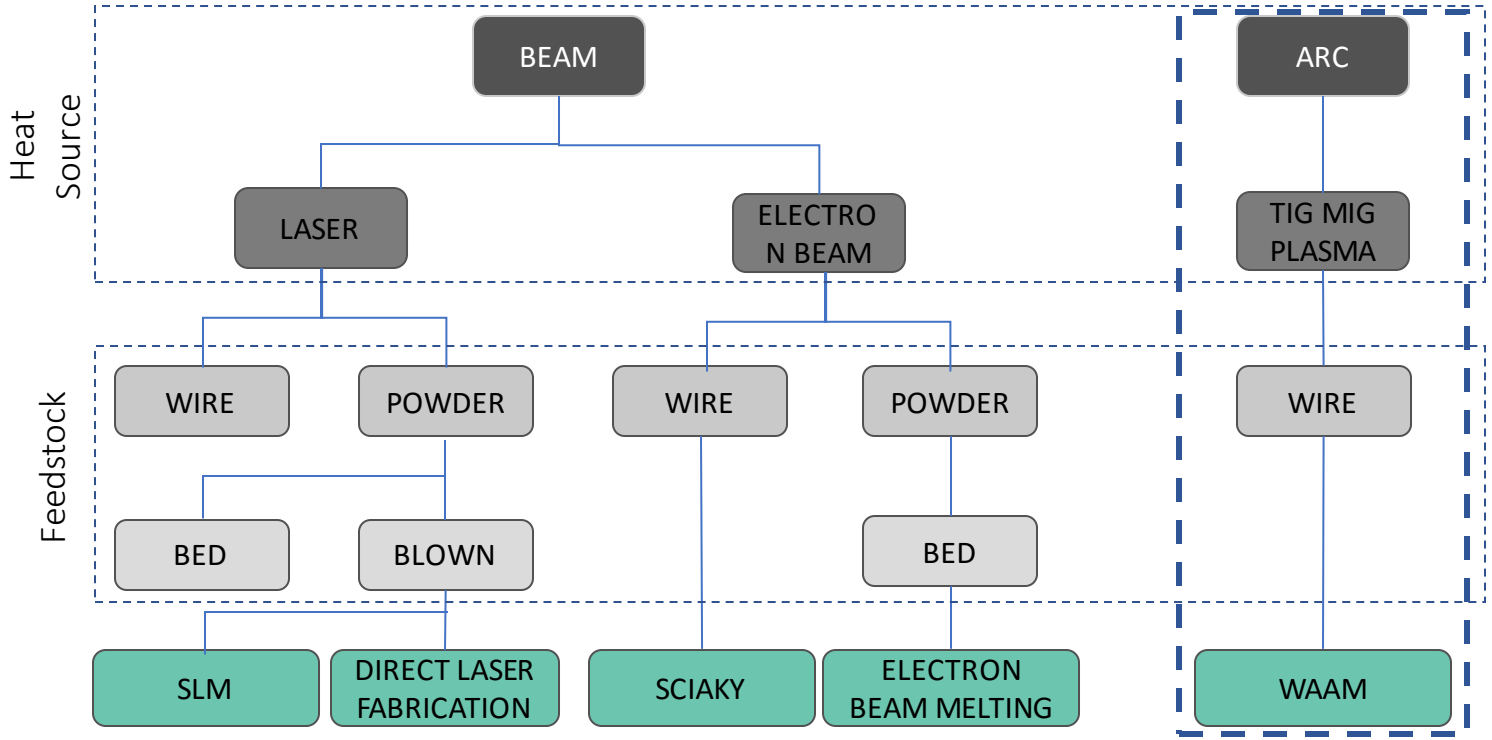
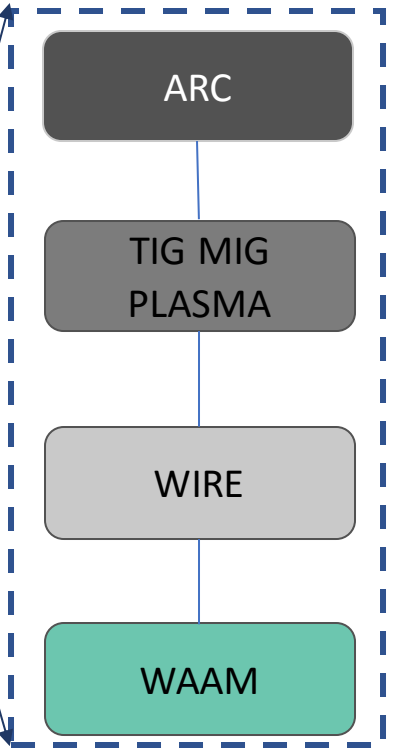


Introduction to the project

Deposition Technology to be used in the project



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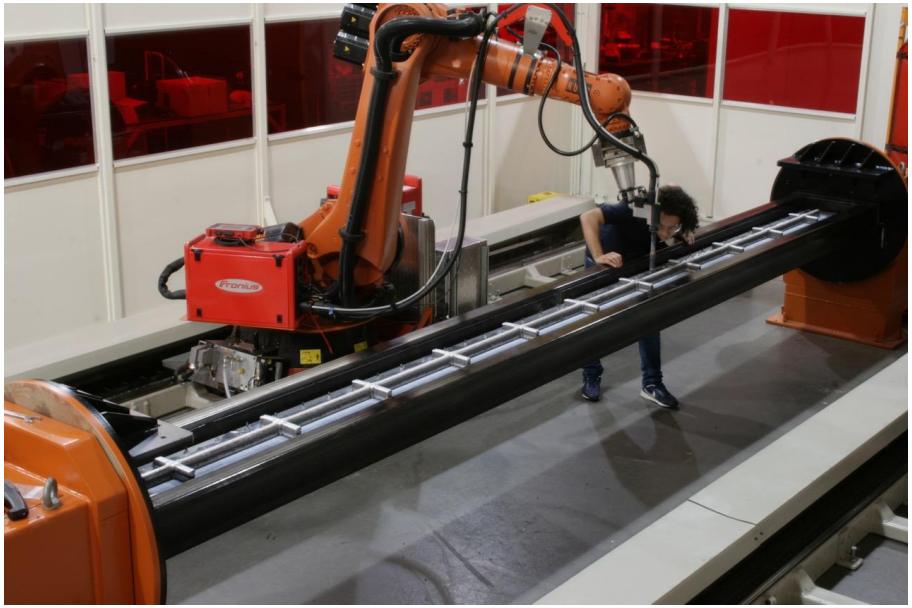
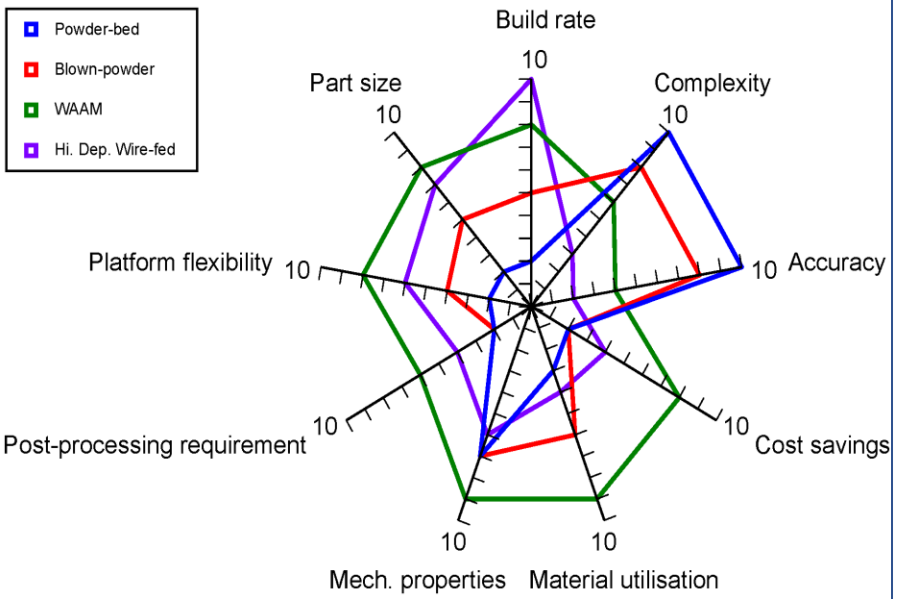
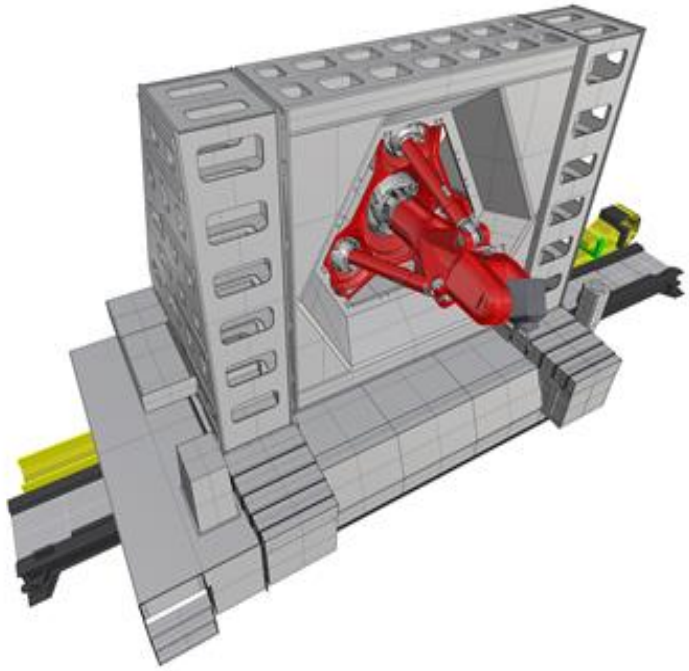
Background - Additive



Background - Additive



Background - Subtractive



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Overall objectives

Large

Additive

Subtractive

Integrated

Modular

Machine

Capabilities LASIMM

- AM
- Machining
- Cold work
- Metrology
- Inspection

Multiple goals

- High productivity
- Flexibility
- Structural integrity
- Superior performances

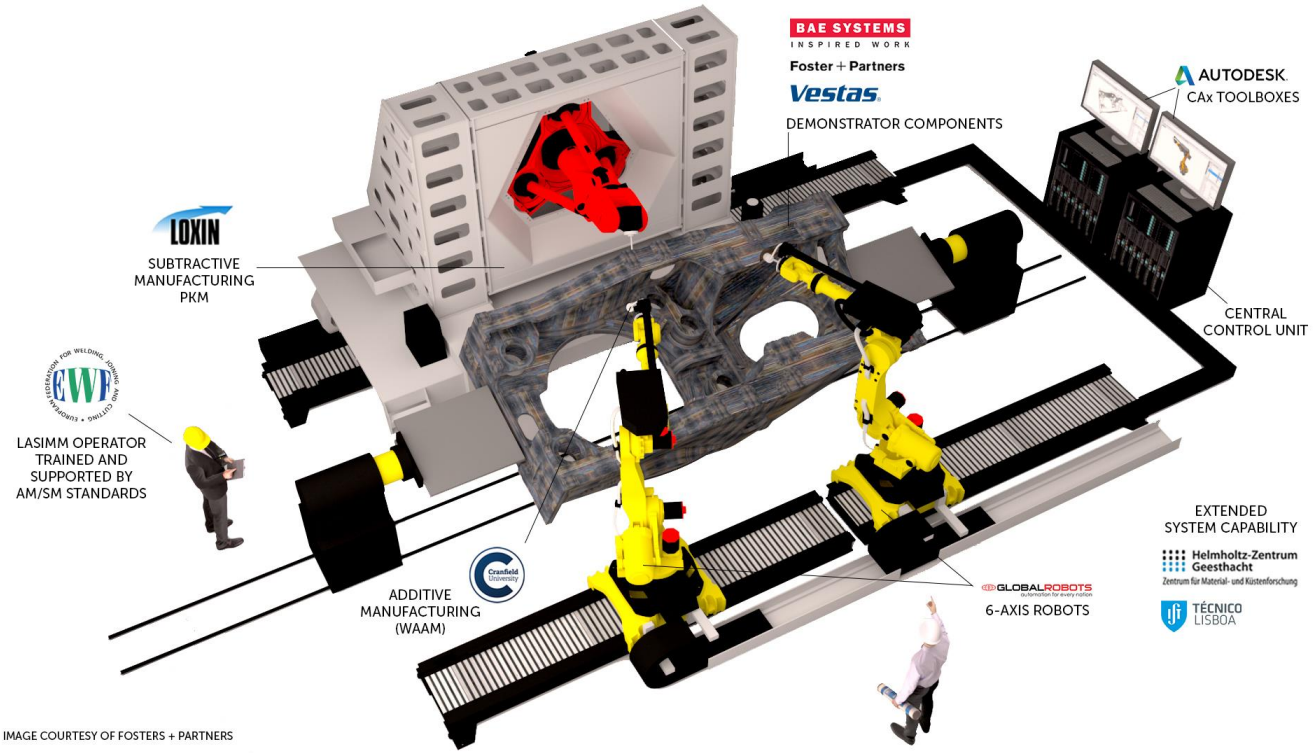
Long term goal

System capable of producing components:

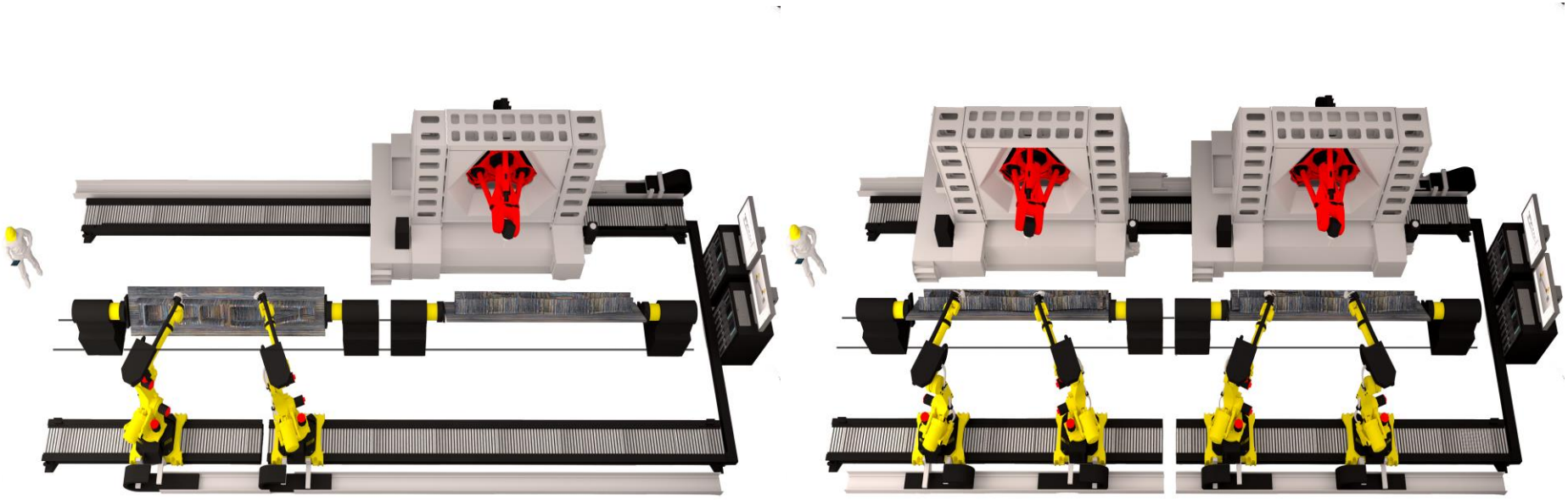
- Fully finished
- Inspected
- Quality assured
- Straight from CAD models at a high productivity rate

Trained workforce

LASIMM technology - Concept

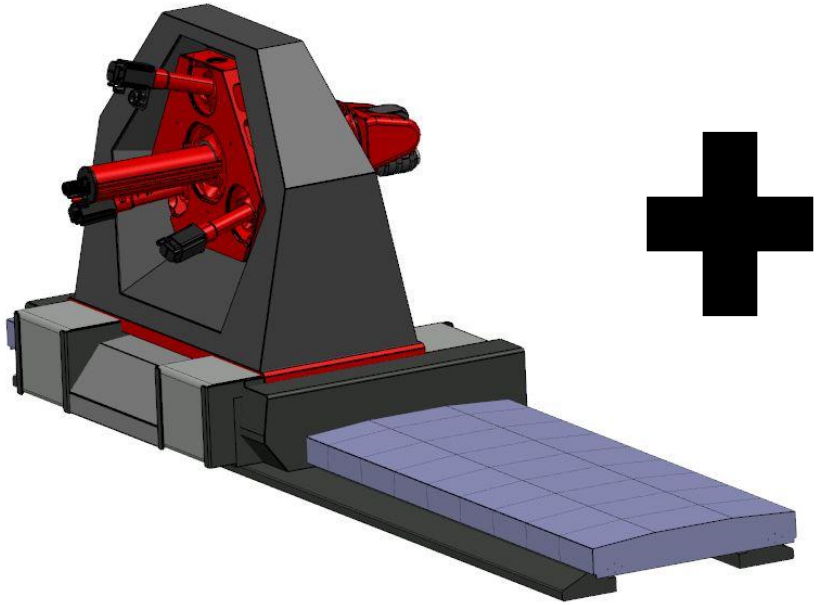


LASIMM technology – Modular arrangement



Images courtesy of Fosters+Partners

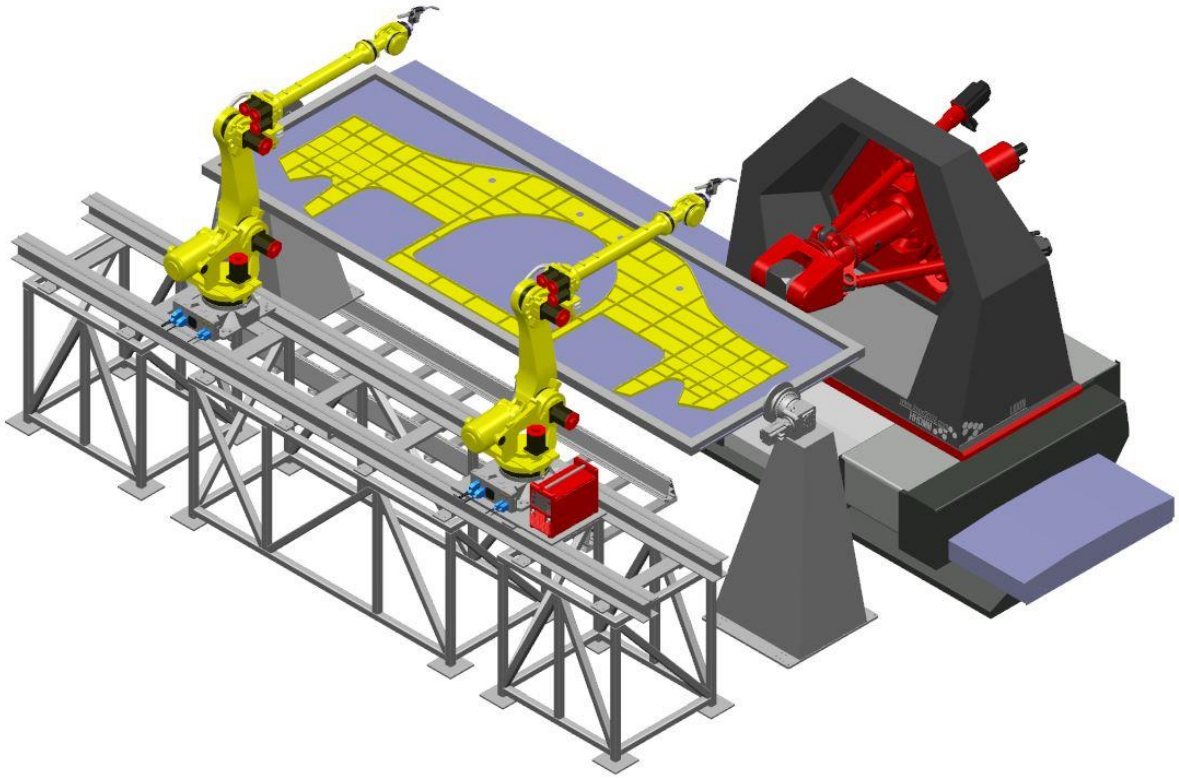
LASIMM technology - Concept



Subtractive Equipment

Additive Equipment

LASIMM technology - Concept



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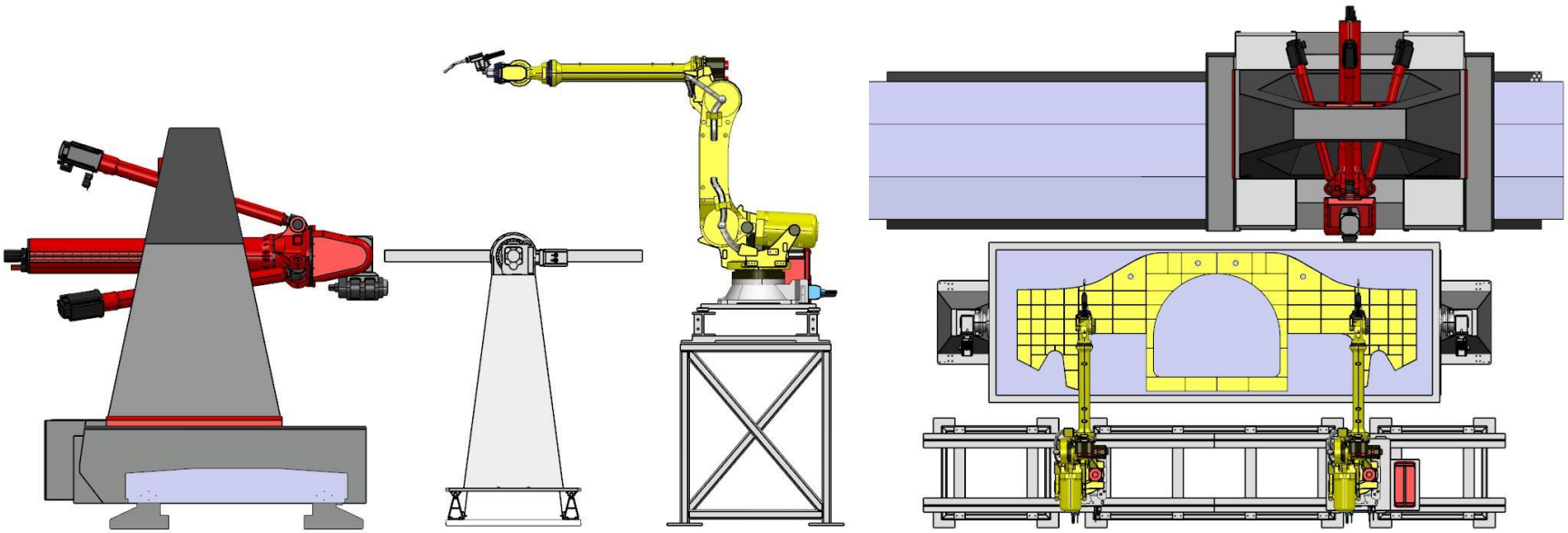
LASIMM technology - Concept



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Key features

20% ↓

Time and cost, with respect to the current additive and subtractive processes

Production of **finished parts** ready for use

More **flexibility** and **robustness** of the machines to adapt with customisation and changing market needs

20% ↓

Time and cost, with respect to the current additive and subtractive processes

15% ↑

Productivity for high-volume AM production, with respect to the current additive and subtractive processes

Improved material properties superior to that of forged materials by inclusion for the **first time** of cold work into an AM machine

Contributions to **standardisation** and certification for new hybrid procedures

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THANK YOU

FOR YOUR CONTINUOUS SUPPORT

Helmholtz-Zentrum Geesthacht
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25 YEARS OF INTERNATIONAL QUALIFICATIONS
EWF
1992 - ANNIVERSARY - 2017

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