



Development of a Machine for Multi-Material Manufacturing

Fact Sheet

Project Information

4M

Grant agreement ID: 673817

[Project website](#) 

DOI

[10.3030/673817](https://doi.org/10.3030/673817) 

Project closed

EC signature date

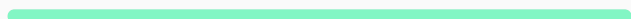
2 June 2015

Start date

1 July 2015

End date

30 June 2017



Funded under

INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies – Space

Total cost

€ 950 000,00

EU contribution

€ 665 000,00

Coordinated by

RHP TECHNOLOGY GMBH



Austria

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Objective

The main goal of this project is the development of an industrial “plug & play” system for additive layer manufacturing which is based on a blown powder process using Plasma Transferred Arc (PTA) Technology. The developed 4M System will offer:

- a) Simple equipment concept based on well established PTA technology for hard facing coatings
- b) Possibility to realize Multi-Material concepts
- c) Suitability of the technology to be used for a wide range of raw materials
- d) High deposition/building rates
- e) Possibility to realize large size components (up to 1,5 m x 1,5 m in the first version)

Within the project the system will be developed to be used for two different materials (Al and Ti-alloys) and to demonstrate one multi-material concept. The developed process will be used to realize three different demonstrators (case studies) and to perform testing of the manufactured prototypes under space relevant testing conditions.

Fields of science (EuroSciVoc)

[engineering and technology](#) > [materials engineering](#) > [composites](#)

[natural sciences](#) > [chemical sciences](#) > [inorganic chemistry](#) > [transition metals](#)

[engineering and technology](#) > [materials engineering](#) > [coating and films](#)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electronic engineering](#) > [sensors](#)

[engineering and technology](#) > [mechanical engineering](#) > [manufacturing engineering](#) > [additive manufacturing](#)



Programme(s)

[H2020-EU.2.1.6. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies – Space](#) MAIN PROGRAMME

[H2020-EU.2.3.1. - Mainstreaming SME support, especially through a dedicated instrument](#)

Topic(s)

[Space-SME-2014-2 - SME Instrument](#)

Call for proposal

[H2020-SMEInst-2014-2015](#) 

[See other projects for this call](#)

Sub call

H2020-SMEINST-2-2014

Funding Scheme

[SME-2 - SME instrument phase 2](#)

Coordinator



RHP TECHNOLOGY GMBH

Net EU contribution

€ 455 000,00

Total cost

€ 650 000,00

Address

FORSCHUNGSZENTRUM SEIBERSDORF GEBAUDE CA

2444 Seibersdorf An Der Leitha

 **Austria** 

SME 

Yes

Region

Ostösterreich > Niederösterreich > Wiener Umland/Südteil

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Participants (1)



AEROSPACE & ADVANCED COMPOSITES GMBH

 Austria

Net EU contribution

€ 210 000,00

Address

VIKTOR KAPLAN STRASSE 2

2700 Wiener Neustadt 

SME 

Yes

Region

Ostösterreich > Niederösterreich > Niederösterreich-Süd

Activity type

Private for-profit entities (excluding Higher or Secondary Education Establishments)

Links

[Contact the organisation](#)  [Website](#) 

[Participation in EU R&I programmes](#) 

[HORIZON collaboration network](#) 

Total cost

€ 300 000,00

Last update: 11 August 2022

Permalink: <https://cordis.europa.eu/project/id/673817>

