



ADDITIVE MANUFACTURING FOR INDUSTRIAL CERAMICS

The AM4CER project seeks to increase flexibility through the additive product, which will allow industrial production of complex geometric ceramic products.

The additive manufacturing system under development is oriented towards the production of ceramic industrial parts, providing two advantages to the robocasting base process.

The first incorporates the fabrication of ceramic products, layer by layer, accompanied by easily removable structures, such as supports (AM4CER.easy). And the second advantage is the ability of the additive system to deposit ceramic material on three-dimensional surfaces of parts shaped by conventional technology (AM4CER.surf).

However, in this way, utilitarian ceramics are created without limitation in terms of design.

CONSORTIUM

HRV – Equipamentos de Processo, SA (Líder)

Porcelanas da Costa Verde, SA

CTCV – Centro Tecnológico da Cerâmica e do Vidro

CDRSP – Politécnico de Leiria

Escola Superior Avelro Norte – Universidade de Aveiro



Cofinanciado por:



UNIÃO EUROPEIA
Fundos Europeus
Estruturais e de Investimento

Project Title: AM4CER: Additive Manufacturing for Industrial Ceramics

Project Designation: Projetos de I&DT Empresas em Copromoção

Universal Code: POCI-01-0247-FEDER-047102

Main Objective: Reforçar a Investigação, o Desenvolvimento Tecnológico e a Inovação

Intervention Region: Norte; Centro

Main Promotor: HRV - EQUIPAMENTOS DE PROCESSO S.A.

Copromotors: PORCELANAS DA COSTA VERDE S.A.; INSTITUTO POLITÉCNICO DE LEIRIA; UNIVERSIDADE DE AVEIRO; CENTRO TECNOLÓGICO DA CERÂMICA E DO VIDRO(CTCV).

Approval Date: 27/01/2021

Start Date: 30/09/2020

End Date: 30/06/2023

Eligible Total Cost: 1.446.052,13€

European Union Financial support: FEDER – 1.028.265,12€

Objectives, activities and expected/achieved results

The AM4CER project consists of increasing the competitiveness of the ceramic industry with the development of new digital direct manufacturing technologies, increasing production flexibility, enabling the industrial production of geometrically complex products that would be impossible to produce by a traditional way.

