

HORIZON
2020

Modular Intelligent Hydraulics

Fact Sheet

Project Information

MIDRAULICS

Grant agreement ID: 779020

[Project website](#) 

DOI

[10.3030/779020](https://doi.org/10.3030/779020) 

Project closed

EC signature date

3 August 2017

Start date

1 September 2017

End date

30 September 2020

Funded under

SOCIETAL CHALLENGES - Smart, Green And Integrated Transport

Total cost

€ 1 290 523,75

EU contribution

€ 903 366,63

Coordinated by

HYDRONIT SRL



Objective

HYDRONIT is a company established in 2003 whose core business focuses on research, development and production of smart modular hydraulic power packs and relevant components for the mobile industry, for which we strive for excellence. We operate in 50+ countries with daughter companies located in China, the UK and the US. Our passion for hydraulics power and our commitment with our customers let us reach €4 million turnover in 2015, 60% of which coming from exports (as of 2016Q2, we project 10% growth for 2016, which will let us achieve €4.4 million turnover).Hydronit has always pursued a full new concept of hydraulics consisting on building modular solutions that integrates all necessary pieces of knowledge

(electric/electronics on top of hydraulics), removing the need to resort to multiple subcontracts to produce the final equipment. Following this philosophy, we have been developing MIDRAULICS, a programmable intelligent mini and micro power pack for the mobile industry (e.g. industrial, construction and agricultural vehicles and equipment). MIDRAULICS will provide our customers in the mobile application sector: 1. Full control distribution of hydraulics (100% compared to conventional systems with no integrated control); 2. Total safety thanks to a better control of the solution components and power; 3. Huge energy saving, as a results of the following factors: 86% less material for wiring; 10 % electric power savings in on-off applications thanks to start stop features; 30% electric power savings in variable speed applications through use of Inverters and AC motors. 4. Environmental friendliness, thanks to Metal reduction (no need for sensor housing) and Cable reduction (through use of wireless communications) Thanks to MIDRAULICS, we expect to generate about €6.87 million accumulative revenues during the first 5 years of business (conservative scenario), achieving a RoI ≥ 1.58 .

Fields of science (EuroSciVoc)

[engineering and technology](#) > [electrical engineering](#), [electronic engineering](#), [information engineering](#) > [electrical engineering](#) > **[electric energy](#)**

[engineering and technology](#) > [mechanical engineering](#) > **[mechatronics](#)**

[natural sciences](#) > [physical sciences](#) > [classical mechanics](#) > [fluid mechanics](#) > **[fluid statics](#)**

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

[natural sciences](#) > [computer and information sciences](#) > [software](#) > **[software applications](#)**



Programme(s)

[H2020-EU.3.4. - SOCIETAL CHALLENGES - Smart, Green And Integrated Transport](#)

MAIN PROGRAMME

[H2020-EU.2.1.1. - INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies \(ICT\)](#)

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

Topic(s)

[SMEInst-10-2016-2017 - Small business innovation research for Transport and Smart Cities Mobility](#)

Call for proposal

[H2020-SMEInst-2016-2017](#)

[See other projects for this call](#)

Sub call

H2020-SMEINST-2-2016-2017

Funding Scheme

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

Coordinator



HYDRONIT SRL

Net EU contribution

€ 903 366,63

Total cost

€ 1 290 523,75

Address

VIA PASTRENGO 62

20814 VAREDO

 **Italy** 

SME 

Yes

Region

Nord-Ovest > Lombardia > Monza e della Brianza

Activity type

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

Links

[Contact the organisation](#) 

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

[HORIZON collaboration network](#) 

Last update: 18 August 2022

Permalink: <https://cordis.europa.eu/project/id/779020>

European Union, 2025

