



Poggipolini – EVOCATION Project

As part of the National Recovery and Resilience Plan (PNRR), Poggipolini is participating in the research program EVOCATION (Cost-effective Innovative Sensors for Monitoring Diagnostic Parameters and Machinery Load Conditions), funded by the European Union through NextGenerationEU.

The project aims to explore maintenance techniques based on monitoring, diagnostics, and prediction, tackling the issue across three complementary areas:

- The use of next-generation sensors to monitor physical parameters (e.g., strain, load, vibrations, lubricant conditions) that are currently underserved by existing technologies, at competitive costs.
- Identification of innovative applications for these sensors and the design of testing procedures and setups.
- Development of analysis methodologies integrating artificial intelligence, signal processing, and physical modeling.

Poggipolini contributes to this project with a focus on its hot forging processes for critical fasteners.

Launched in December 2023, EVOCATION is funded by the European Union – NextGenerationEU, through a call issued by BI-REX in June 2023. The project is carried out in partnership with industry leaders such as Bonfiglioli, SACMI, Velan ABV, E.S.T.E., Sanchip, Sens-In, Selcom Group, and ISE, along with the involvement of CIRI ICT (University of Bologna) and IN4 Hub (University of Ferrara).

BI-REX is one of Italy's eight national Competence Centers established by the Ministry of Enterprises and Made in Italy under the "Industry 4.0" government plan. It is a public-private consortium focused on Big Data, bringing together 60 top-tier partners from academia, research, and industry.

Poggipolini – MAM4HP Project

As part of the National Recovery and Resilience Plan (PNRR), Poggipolini is leading the MAM4HP (Metallic Additive Manufacturing for High Performances) research program as project coordinator. Funded by the European Union through NextGenerationEU, the project focuses on the development of additive manufacturing processes for mechanical components used in the aerospace, motorsport, and hydraulics sectors.

This initiative builds on a previous project also coordinated by Poggipolini and aims to push the boundaries of advanced metal additive manufacturing technologies.

The MAM4HP project was launched in December 2023 and is funded by the European Union – NextGenerationEU, via a BI-REX call issued in June 2023. Project partners include Ducati, Bonfiglioli, Altair, and Juno, alongside academic institutions like the University of Bologna and the Polytechnic University of Turin.

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