

Cost-effective production process for innovative high-performance electric motors



Contract nr. 125 / 2020, Project Code EUROSTARS-2019-E!12367-iTorque

iTorque address: <http://www.icpe.ro/itorque/>

- iTorque aims at developing an enabling process and machines to produce innovative segmented motors. This will result in reducing the electric motors cost and impact on the environment, by decreasing the waste material, the assembly costs and increasing motor performances.
- The goal of the project is to develop a new generation of high-performance electric motors, called iTorque, and the related cost-effective manufacturing process.
- Three technologies will be exploited:
 - production of stators and rotors by means of modular elements (segments or poles),
 - use of very thin magnetic laminations,
 - use of bonding technology for lamination joining.
- These technologies lead to:
 - Reduction of electric motors cost (-30%),
 - Reduction of waste material (-40%),
 - Increased performances (+15%),
 - Simplification of production and assembling.
- **Acronym:** iTorque
- **Technical Area:** Generators, electric engines and power converters
- **Market area:** Motor vehicles, Transportation Equipment and Parts
- **Romanian partner funded by:** UEFISCDI
- **Status:** Ongoing
- **Project Partners:** STAM Srl (Italy – Coordinator R&D, SME), Icpe (Romania – Partner, R&D SME), Cim-mes Projekt Sp. Z O.o. (Poland – Partner, SME)

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