

Original Advanced Manufacturing for Innovation in metal sheet forming (acronym: ORIGAMI)



In order to solve the problems due to the work hardening of the titanium and its alloys after the cold deformation, Titalia together with Politecnico di Milano has proposed a two-year research project. It was launched in July 2012 with the scientific contribution given by the staff of the Department of Mechanical Engineering at Politecnico di Milano. The project is funded by the Lombardy Region (Regione Lombardia) and the

Italian Ministry for Industry University and Research (MIUR). It is aimed at developing advanced laser assisted forming of metal sheets. Localized laser treatments are exploited and optimized to fine-tune material formability along the sheet regions where plastic deformation is particularly demanding. Titanium material and its alloys are under investigation for the development of such manufacturing route, specifically dedicated to high-performance structural parts.

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