

A solution for demolding composite parts

Projet MIND

IRT
JULES
VERNE

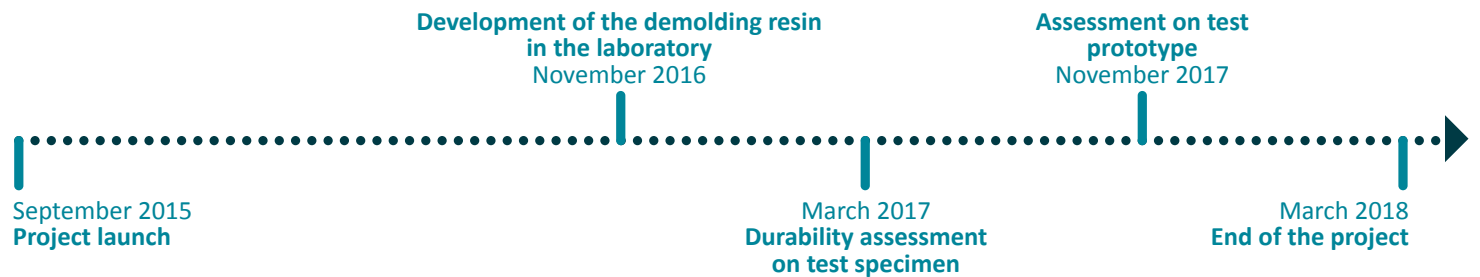
This project aims to provide semi-permanent demolding features to the molds currently used in the production of large-dimensioned composite parts.

Technical and economic impacts

- ▶ Cost reduction of mold cleaning operations
- ▶ Improvement of the demolding process and lessening of non-qualities
- ▶ Longer mold lifetime

Keywords

Demolding technology // thermomechanical ageing // durability // non-adherence



INDUSTRIAL CONTEXT.....

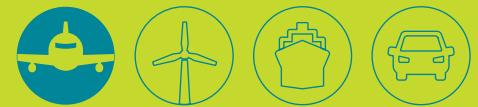
Composite materials are widely used in the aircraft industry, and have become of great interest to other sectors, such as the automotive industry. The process of demolding composite parts from metallic or composite molds still performs less than the expected productivity. Moreover, it requires the manual application of demolding agents that can be harmful for the environment. Thus, there is a real need for a solution that prevents the use of these demolding agents.

INNOVATIVES FEATURES

- ▶ Evaluation of the “demolding” properties durability in molds
- ▶ Development of an adapted solution for large-dimensioned molds
- ▶ Development of a mold production procedure

INDUSTRIAL APPLICATIONS

This project will lead to the availability of a mold with “demolding” properties and higher performance than the existing solutions that require the manual application of demolding agents. The composite parts produced with this method will better comply with the industry specifications because they will have no traces of demolding products, and will also be safer for the environment.



Partners

- ▶ AIRBUS
- ▶ MULTIPLAST
- ▶ SOCOMORE
- ▶ NANTES UNIVERSITY (GEM)
- ▶ CNRS (IMMM)

Budget

▶ 1 028 k€

Sales contact

Philippe PIARD
philippe.piard@irt-jules-verne.fr

Press contact

Ingrid LEMAIRE
communication@irt-jules-verne.fr

www.irt-jules-verne.fr

