



# LIFE+ PROJECT

## AS NATURAL AS WE CAN

### WHAT IS EU'S LIFE PROGRAMME?

"LIFE is the **EU's financial instrument supporting** environmental, nature conservation and climate action **projects** throughout the EU.

The general objective of LIFE is to contribute to the implementation, updating and development of EU environmental policy and legislation by **co-financing** pilot or demonstration projects with European added value."



**CCaLC Carbon Footprinting Tool**  
Results will be validated with University of Manchester

## FAMECCANICA AND LIFE+

On July 1st, 2013 **Fameccanica** was granted financial support to project proposal N° LIFE12 ENV/IT/000423 concerning the development of means for cost savings in diaper production processes.

The project shall run for three years, starting July 1st, 2013 to Dec. 31st, 2016

The project LIFE Glueless "Petrol based Glue and Energy consumption reduction in diapers production processes", aims to demonstrate to industry and policy makers that **significant environmental impact reduction** in Absorbent Hygiene Products (AHP), such as diapers, can be realized, with appropriate solutions that will be the subject of this project.

The project will showcase how environmental impact can be reduced, while **cost competitiveness can be held or even increased.**



### GLUELESS™ lamination of back ears for baby diapers

The first achievement of the project has been reached at the end of December 2013, with the completion of the qualification of a new **GLUELESS™ lamination concept for back ears for baby diapers.**

This GLUELESS™ construction is now a commercially available solution with Fameccanica laminating **machine model FLS.** Fameccanica is known for its patented solution for a

#### Unique technology for in-line processing of breathable laminates with ultrasonically bonded transpiring spots

The latest improvement has been reached with the complete elimination of the glue applications in this laminate and this is by itself, an evident step in the direction of cost saving in diaper production processes and environmental impact reduction.



Example of real application on a baby diaper

### GLUELESS™ application of ADL is under lab test qualification

Fameccanica has started the qualification of its GLUELESS™ application of ADL (acquisition-distribution-layer) on diaper topsheet.

**The objective of this project phase is to make available a proven technology to be used on Fameccanica converters with commercially available raw materials and a validated set of product performance data.**

The initial lab test demonstrated that **the process and technology developed are appropriate** to realize this type of application at the full speed of the commercially available diaper machines.

Also, the product performance validation phases show that the **key performance indicators** selected (peel force test and fluid handling-acquisition) meet the initial **objectives.**



GLUELESS™ ADL test stand in the R&D Lab



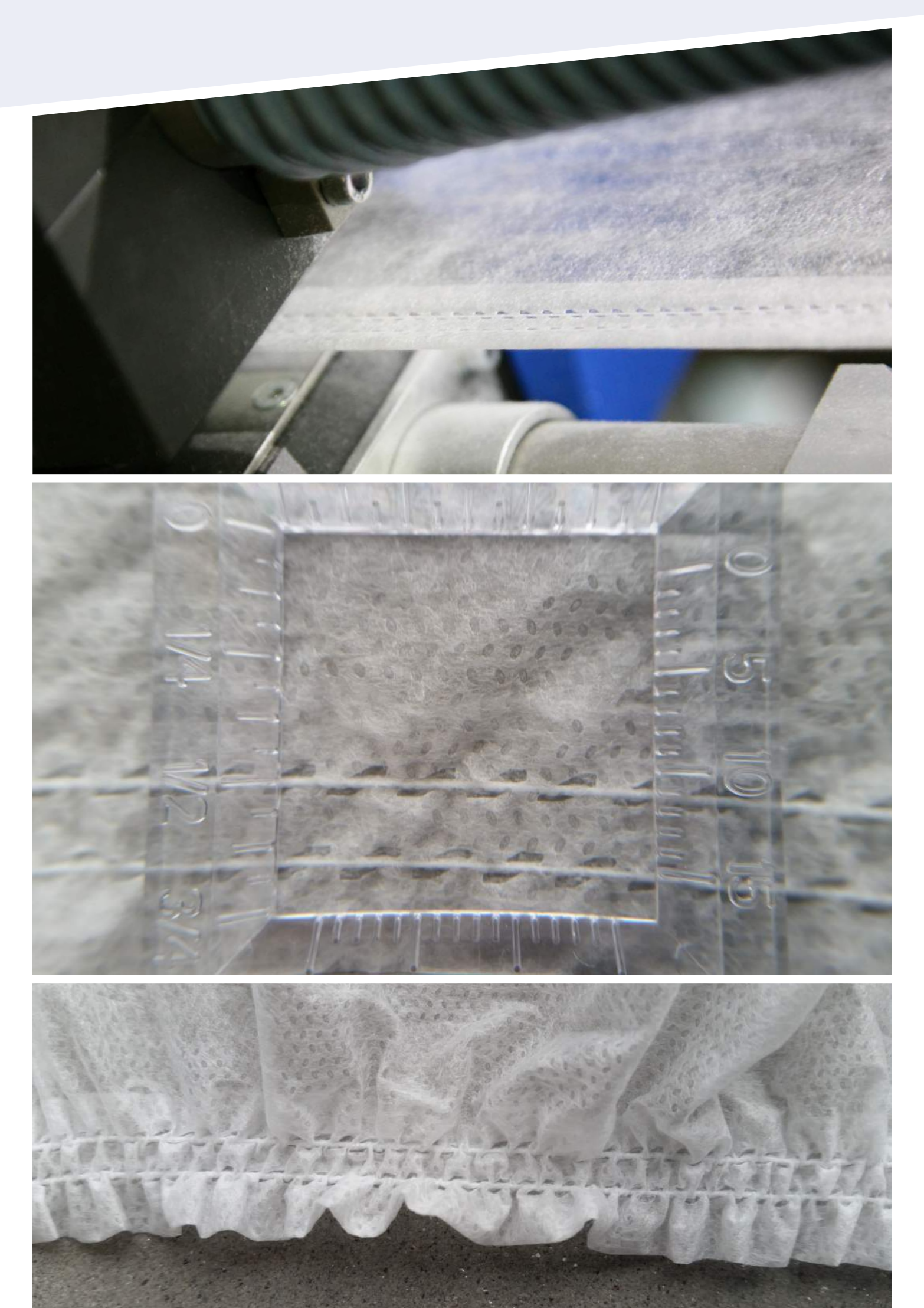
Details of samples of glueless™ ADL application

### GLUELESS™ elastic application

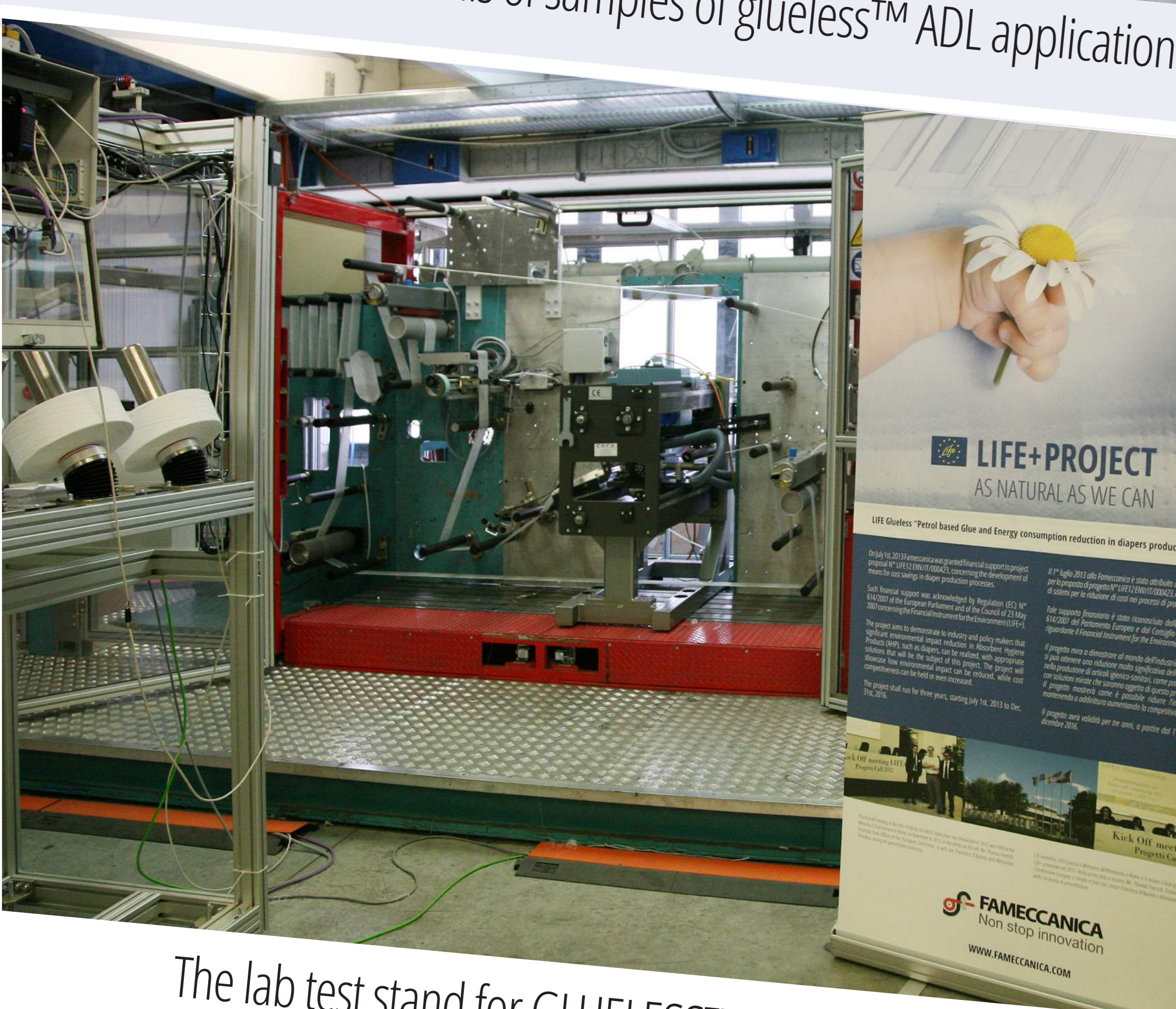
#### Qualification tests

Fameccanica has started the qualification of its GLUELESS™ application of elastic strands and the initial lab test demonstrated that the equipment utilized by Fameccanica on the basis of a patent owned by Cera Engineering France is **appropriate to realize this type of application at the target performance.**

The engineering phase will follow to make available in the future a proven technology capable to fit the real production conditions and requested speed of Fameccanica high performance converters.



Details of process and samples of glueless™ ADL application



The lab test stand for GLUELESS™ elastic strands application