

LOW FLIP

Development of multifunctional handling /
placement / draping system



This project has received funding from the European Union's Seventh Programme for research, technological development and demonstration

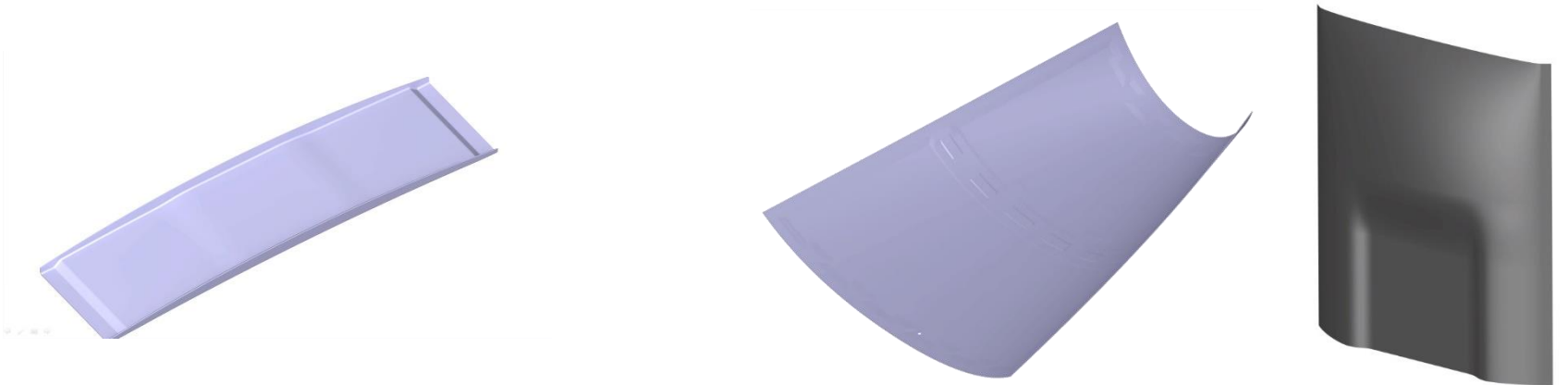
LOW FLIP

2 different production strategies



small & medium sized parts

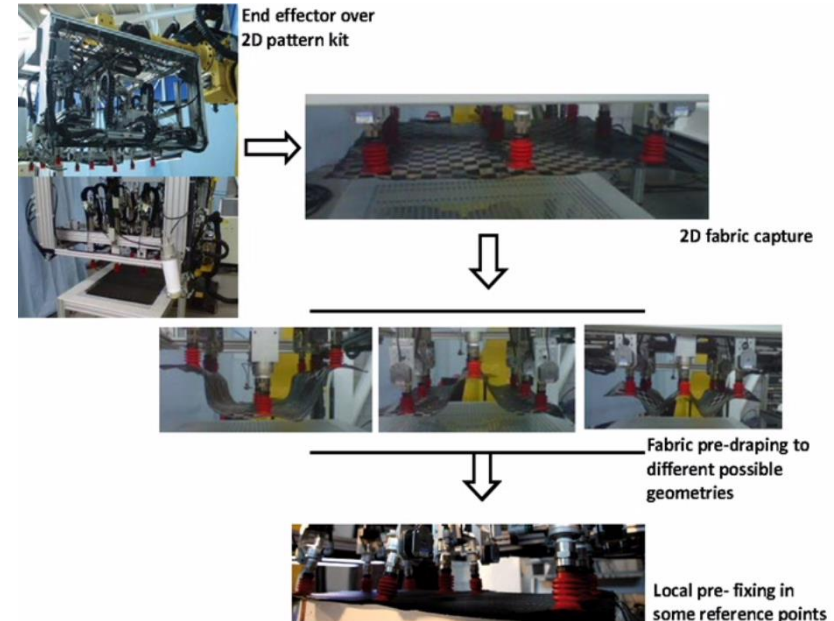
large parts



General process concept for small- medium size parts

MAIN LOWFLIP CHALLENGE:

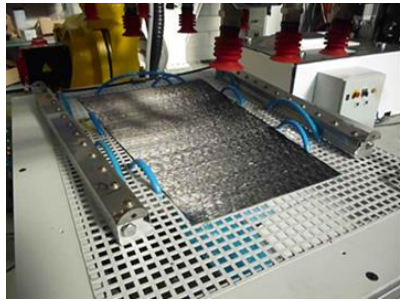
- Further develop/ adapt this cell concept in order to work with semipregs (not dry fibers) including:
 - Automatic manipulation aspects of the semipreg material and foam cores
 - Process and tooling solutions not only for preforming but for curing the final part
 - Automated/ fast cycle process and energy efficient tools for automotive requirements



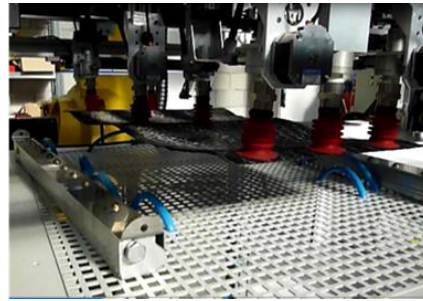
General process concept for small- medium size parts

SOME LOWFLIP ACTIVITIES/ RESULTS IN THIS FIELD:

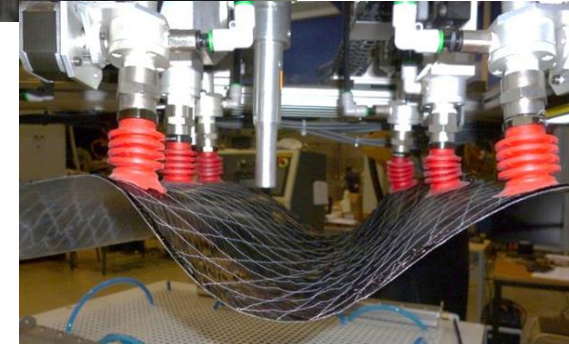
- automatic capture and manipulation on final semipreg/ fabric material



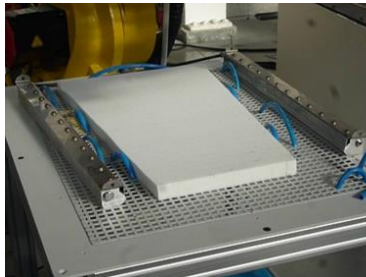
Pick
→



Place
→



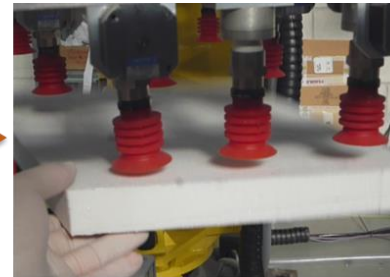
- Automatic capture and manipulation of core material



Pick
→

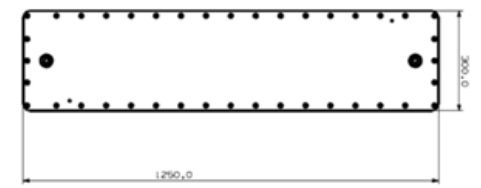
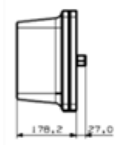
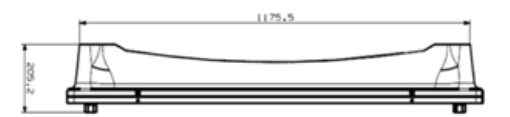
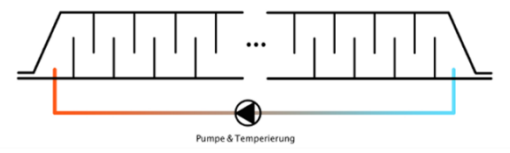
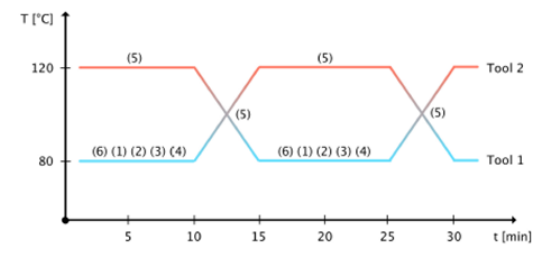
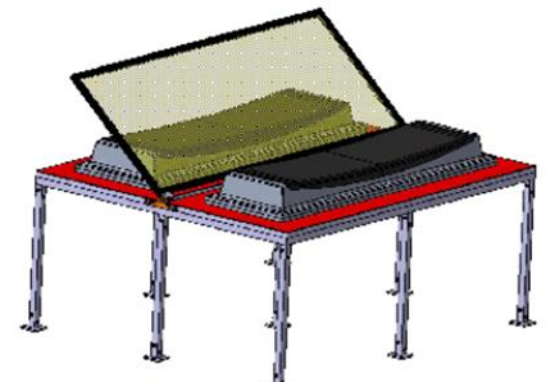
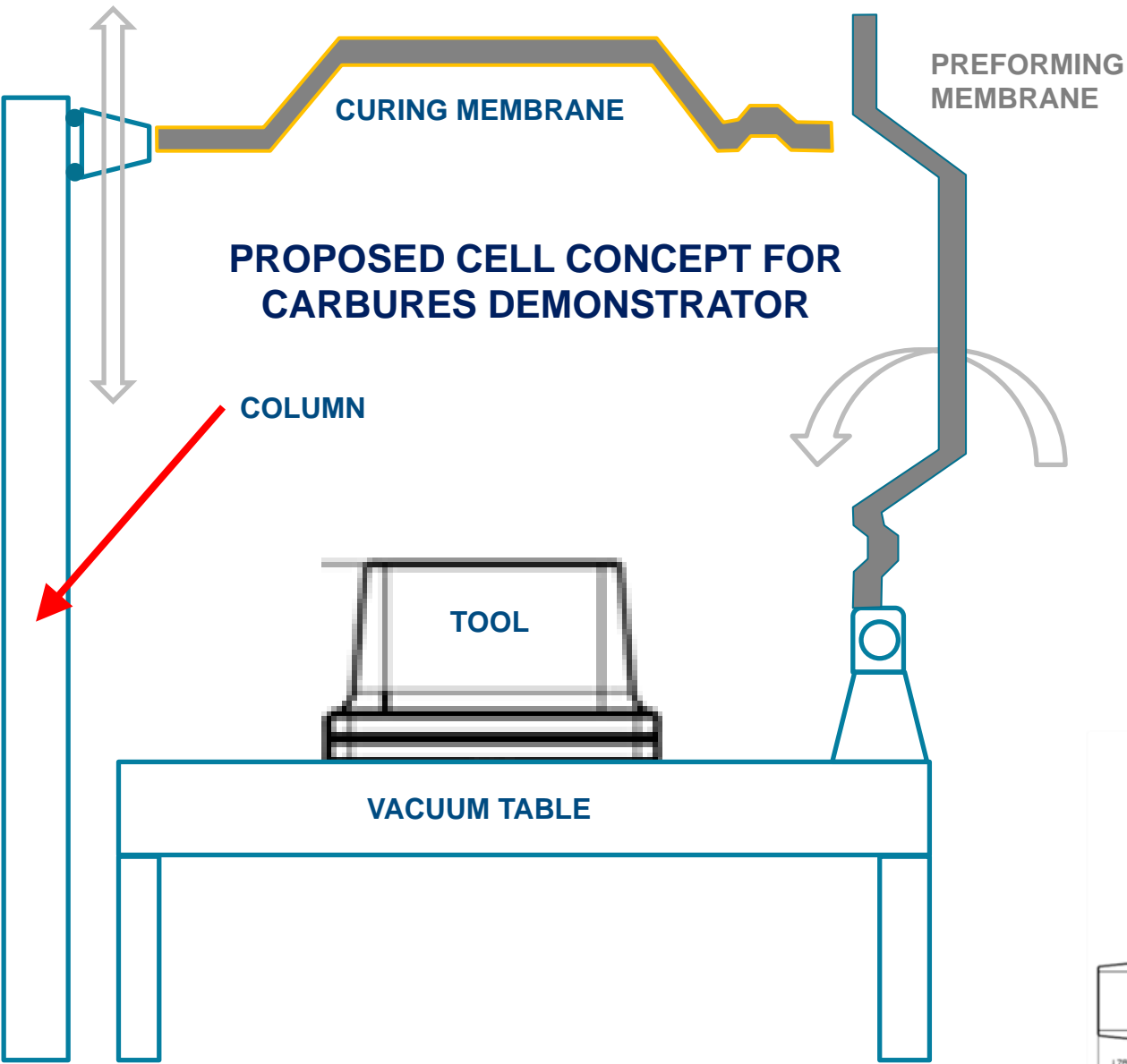


Place
→

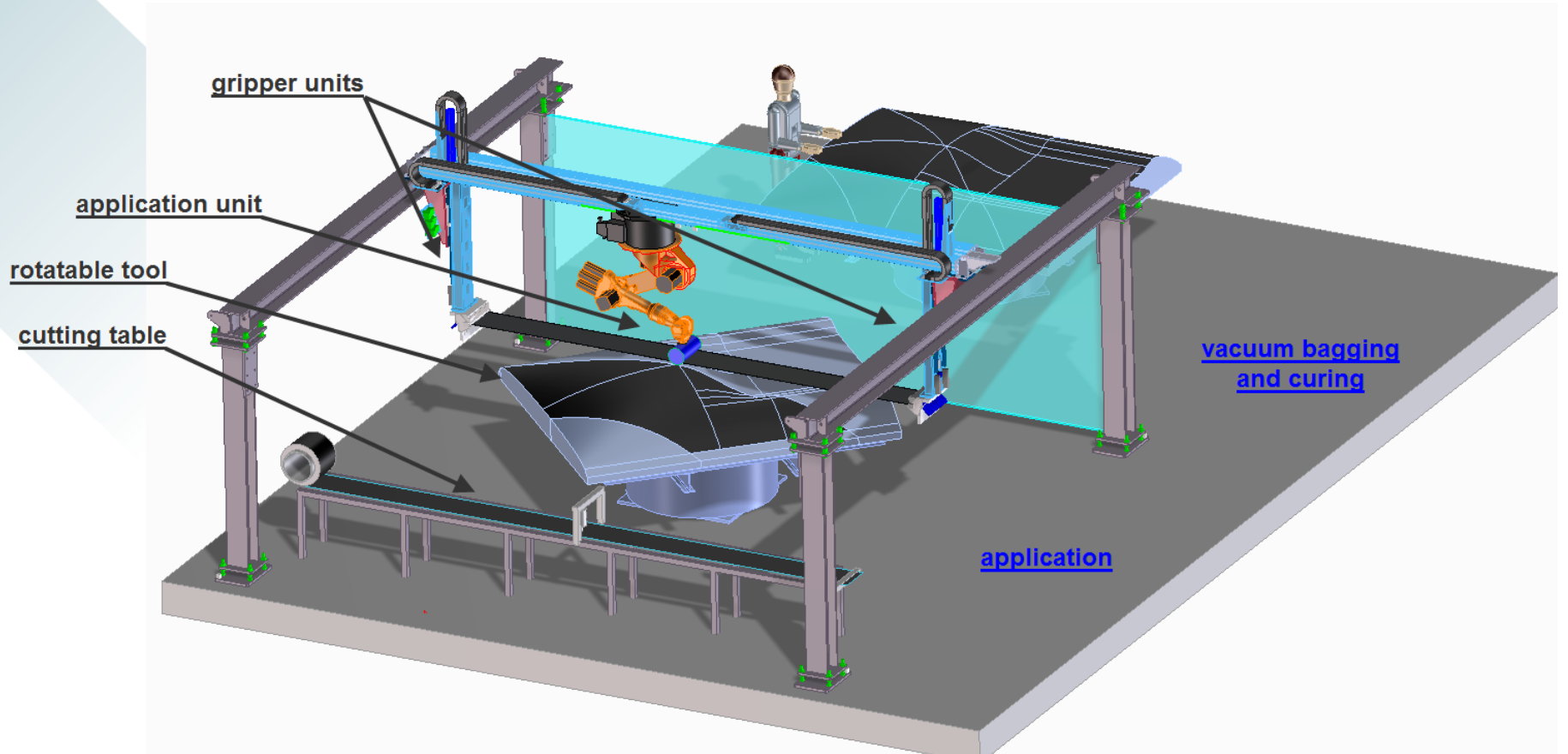


VIDEO

General process concept for small- medium size parts



Production cell for large composite parts



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