



Deliverable Report

Deliverable No: D3.22
Dissemination level: Restricted
Title: Feasibility demonstration for developing gluing machine

Date: 03/01/2018
Version: FINAL
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Grant Agreement Number: 322425
Project Type: FP7 – ENERGY.2012.2.1.2: Demonstrations of smart multifunctional PV modules
Project acronym: SuMMiT
Project title: Smart large lightweight long life Multifunctional PV Module Technology for large Power Installations and Distributed Energy Generation
Project start date: 01/12/2013
Technical coordination: TULiPPS (www.tulipps.com) (NL)
Project management: TULiPPS / Uniresearch (www.uniresearch.com) (NL)



Executive Summary

This Deliverable 3.2.2. we report on the design choices, overall design and construction / implementation of the prototype gluing- and assembling production unit for the SUMMIT module. In the end a system was realised that gives a very good result technically. Because of the large size of the workable area a lot of different sizes can be made. Next to that, the CNC based system gives a programmer full freedom in choosing his/her design. Downside is that it is a very complex system so experienced employees are a must. However, we noticed that the flexibility of the system is detrimental to the output of the system. This means that a more lean and dedicated version will be needed for a commercial PV module production environment. With what we've learned this is no problem as long as the number of product types is limited. In other words, this means that the more automation you want to add the more difficult it becomes to process a lot of different products.

Initially, the lay-up/pressing steps after the gluing station, are performed manually with tooling that we designed. The drawings for automating this step have been finished and the materials are currently being ordered. Within the next months we will build and test this second step.

Acknowledgment



This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 322425 (Project acronym: SUMMIT)

http://cordis.europa.eu/fp7/cooperation/home_en.html

<http://ec.europa.eu>

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This project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under grant agreement no 322425.

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