

Manifatturiero

PARTNER SEARCH PMI7-EU-BSGSME-20

01 dicembre 2017

Oggetto: PARTNER SEARCH PMI7-EU-BSGSME-20

Richiesta di un centro di ricerca tedesco alla ricerca di partner da includere in un loro progetto.

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<Reference n.: PMI7-EU-BSGSME-20>

<Deadline: 04/09/2007>

<Programme: >

<Project Title: Development of a set-up technology for the quick exchange of tufting tools>

<Description: Proposal Summary

The production of tufted floor coverings is of great economic importance to Europe. In 2006 1.500 million m² of floor coverings were produced in Europe. 38% of this amount were textile floor coverings and within this group 57% were tufted floor coverings. The success of tufted floor coverings is based on the fact that tufting machines have a higher production rate than other textile machineries. Due to mechanical wear the tufting tools (needle, hooks and knives) of such machines have to be replaced in regular intervals. During this set-up time, the machine is out of operation. For a machine with a working width of more than 5 m the set-up could last up to three shifts with 2-3 persons. For small and medium carpet manufacturers with a small machine pool the downtime of one machine means a dramatic loss of capacity overall.

The technical goals of this project are a decrease of the downtimes

due to a quick exchange of tufting tools and an increase in the precision of the alignment. This should be achieved by a new technology, where the set-up of the tufting tools is shifted from "onsite" at the machine to "offsite". The machine can be still under operation while the next set-up is prepared. The basic element of this technology is a new measurement technique for the determination of the single tufting tool's position.

The economic impact is an increased productivity by dividing the machine's downtime from the time which is needed for the set-up itself. The new set-up technology offers the opportunity to transfer the exchange and alignment procedure directly to the tufting tool supplier. "Ready-to-use" elements are sent to the end-user instead of shipping single tufting tools, which is a new way of distributing the products. Additionally by this technology particularly SMEs can benefit from the knowledge of the supplier regarding to highly precise adjusted tufting tools for the production of high quality products without having trained experts employed onsite.

<Organisation Type: Centro di Ricerca>

<Partner Sought: Profiles of Partner Sought:

SME - End user of tufting tools

SME - Logistics in a reusable transport system

SME - tools producer for textile machines