LIONAS (Rosendahl)

Neue Produktionstechnologien für Batteriesysteme zur Elektrifizierung (Li-Ions)

Programm / Ausschreibung	IPCEI EuBatIn, IPCEI EuBatIn, IPCEI EuBatIn - 1. Ausschreibung	**Status**	laufend
Projektstart	01.07.2021	**Projektende**	30.06.2028
Zeitraum	2021 - 2028	**Projektlaufzeit**	84 Monate
Keywords	IPCEI Battery		

Projektbeschreibung

siehe englischer Text

Abstract

To achieve the flexibility and adaptability required by the battery industry, a rethinking of production systems is necessary. New procedures, processes and ideas are needed to achieve these requirements.
Automatic measurement of cell dimension and deriving the data for 3D printing of new gripper parts is the main idea and thus keep the system flexible. Beside that various independent requirements (e.g.: climate control, fire safety concept) can just be implemented easily into a production of the production system.
To be able to assign matrix production to the already known structural types of the material flow system and assign it into the Rosendahl Nextrom Manufacturing (Technology) Solution, the understanding of the interplay of physical and functional structure is important.
The matrix production has two essential additional properties compared to state-of-the-art chained assembly lines: dynamic in time and multiple redundant. This makes the production matrix a mesh structure that is redundant several times depending on the number of assigned work packages per work cell.

Projektpartner

- Rosendahl Nextrom GmbH