

Development of a modular product family for the mechanization of mussel farming and processing in Santa Catarina

Rómeis Kovacs Scalice, Fernando Antonio Forcellini, Nelson Back

Abstract: In the last decade, Brazil has seen accelerated growth in commercial mussel farming in the state of Santa Catarina. However, similar technological and industrial development has not accompanied this evolution, and the processes used are still highly dependent on human labor. In order to solve this problem, this study proposes a product family design for the mechanization of the main processes performed during mussel farming and processing. To achieve this, a design methodology of modular products was used to create nine main modules, which, when combined, allow for the production of eight different products.

Keywords: Product Design; Design Methodology; Mussel Farming

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