

BREAD CUTTER AND SELF-CLEANING DINING SPACE FOR HANDICAPPED PERSONS

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ABSTRACT

In this project, a concept of a new handicapped accessible bread cutter and detail solutions for the several functions were developed. Two prototypes of the bread cutter were designed and manufactured together with the project partner, whereby the second prototype is the improved version of the first one. For the realisation of the second prototype, test results of the first prototype were used to remove existing weak points. The second prototype was tested extensively and optimised in details. It has reached an early stage of series-production readiness. The basic concept, design and the positioning of the components as well as the way in which the device can be controlled and operated are functional and practical. The bread cutter prototype fulfills all of the demands placed on this device. In particular, the one-handed system meets all expectations.

Existing change options for a series production are the optimal selection of the materials used (light-weight construction) and the design of the machine casing, optionally with the help of a designer.

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