

Emsys

Drum Emptying Module



Description

Designed specifically for the beverage industry to empty in a simple, quick and effortless manner all kind of concentrated liquids, contained in drums or jerricanes. Its completely sanitary construction and simple operation makes it an ideal equipment to integrate it in the preparation line of syrup rooms.

In the automatic version, the equipment has an artificial vision system to detect the hole on the lid of the drums and a weighing system to detect the weight of the product.

All there is needed to do is just to select the product that you want to empty and the system automatically detects the hole on the lid of the containers, empties them, and once it detects that they are completely empty, rinse them according to the rinse cycles and volume of water that is specified for the product that is emptying. Once emptied, the system returns to its home position, where it can be cleaned with an automatic CIP process.

- Equipment consists of movements in three axes (X, Y, Z) by a robotic arm and an artificial vision system which allow precise and automatic positioning over the hole on the lid of the drum to be emptied.
- Possibility of manual equipment and lances of different sizes for the emptying of drums of smaller volume, for example 25 liters.



Main Features

Fully automatic process:

In the automatic version, when integrated with the Formbev, it allows the emptying of drums at the time indicated in the formulation recipe, commanded by the Formbev.

CIP ready:

Thought from its origin to be compatible with in-line CIP and designed to ensure a thorough cleaning.

Modifications Control:

The edition of recipes is accessible by authorized operators that allows their creation and/or modification. This allows the simple creation and/or modification of recipes with flexibility. Optionally, it is possible to have a database with the extended history of the elaborations that have been carried out in the system.

Easy operation:

The process is controlled through the touch-screen provided by the equipment as HMI, from where all the operations can be carried out in a simple and intuitive way. Emsys has the option to replicate the screen and the operation of the equipment remotely via an installed PC in any area of the plant.

Technical Specifications

- Load capacity:
 - Simple Version: up to 4 drums of 600 mm in diameter with its corresponding pallet.
 - Double Version: up to 8 drums of 600 mm in diameter with its corresponding pallet.
 - Full Version: up to 16 drums of 600 mm in diameter with its corresponding pallet.

* Other sizes available upon request.

