MLP315

AUTOMATED FILLING MACHINE FOR LIQUID - VOLUMETRIC CONTROL

Experimental capabilities

- **Production line control (format change, setting, configuration)**
- **Dosage adjustment**
- **Setting of cylinder detectors**
- **Change format**
- **Functional analysis**
- **Technical analysis**
- **Process capability**
- **Diagnosis and replacement of a capacitive detector HS, 1 distributor HS and 1 HS cylinder (all faulty equipment supplied)**
- **Conveyor speed control**
- **Configuration of variator**
- **Operation in degraded mode**

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version : FT-MLP315-STD-B

MLP315

Operating principle

The dosing system / filling of automated liquid MLP 315 is integrated in a packaging line corresponding to the range MLP of DIDATEC
It allows to study the operation of a packaging station, and to perform maintenance on.
It can be used in on-line operation, in automatic autonomous position, or in degraded mode.
It also allows to study the configuration / control, the capability as well as mechanical settings associated with the adjustment of the dosage.

It can either be used as part of the learning of industrial electricity, of automation, of the maintenance, and production control on automated systems.

The robust design of this device makes it suitable for use in schools.
The equipment is set up on an Anodized aluminium frame on casters wheels. This gives it great strength and a flexibility of integration into your premises.
The manufacture of this equipment complies with the European standard for machinery manufacturing.

This equipment can be used alone or with other compatible equipment from our range (see last section of this document).

Technical details

Chassis :

A structure made of aluminum profiles on brake swivel wheels
1 full carterisation in polycarbonate
2 access doors on the front and rear of the machine (equipped with safety key contact)
1 conveyor belt
1 tank 20L
1 volumetric dosing

Electrical box:

Integrated on the chassis of MLP 315
Circuit breakers and differential.
Module preventa
Main switch
1 variator for conveyor
1 PLC type TWIDO Modbus Ethernet Module TCP IP
1 display magelis XBTGT
Control pushbuttons and indicators on console
Annex panel with two-hand control at the bottom part of the machine for use in secure degraded mode.

Operative part:

A pneumatic volumetric dosing variable displacement
Adjusting of the dose to 1ML
A belt conveyor with three-phase asynchronous motor
A system of ginning cylinders (double cylinder ensuring unitary supply of the containers to the post)
A system of clamping cylinders and of stop
Reflex optical detectors to detect the presence of products at different stages of the process.
1 capacitive rod detector submerged to low level detection of the tank
1 block of distributors.

Services required

- Electrical supply : 230 Vac – 50 Hz
- Compressed air supply: 6-8 bars (dry air)
- Dimensions: (LxWxH mm): 2350 x 800 x 2000
- weight (Kg): 150

Note : if the equipment installation is operated by our staff, all supplies and exhaust connections required must stand at less than 2m from the machine

Documentation

- User's manual
- Pedagogical manual
- Technical documentation of the components
- Lab exercises
- Certificate of conformity CE

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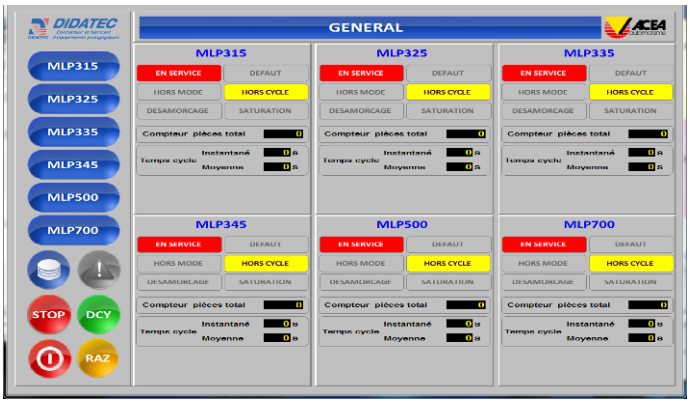
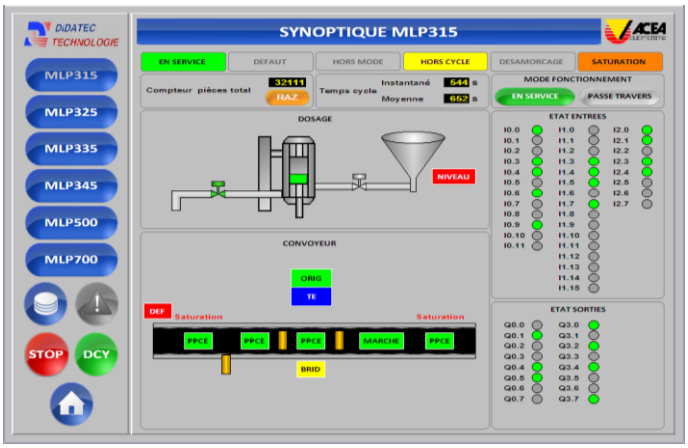
Options

- Upstream: Dynamic supply table
- Upstream or downstream: weight filling machine of granules
- Downstream: jars and bottles capping machine
- Option supervision in Ethernet network

- MLP 205
- MLP 325
- MLP 335
- MLP 800





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