

MODULAR PRODUCTION LINE



Experimental capabilities

- Conduct of production machines of various technologies
- Parameterization according to production revenues
- Quality control (SPC, traceability, processes capability)
- Online production or production in degraded mode (implementation of activities unloading / repotting)
- Maintenance (electrical, mechanical, pneumatic ...), various defective and spare parts provided
- Studies of technological solutions : large variety of components
- Study of the control loops (pressure temperature, velocity and position).
- Study of different communication mode (ASI Bus, CANopen, TCPIP protocol)
- Functional and technological analysis
- Ethernet network supervision

Operating principle

Using online machinery or each independently in order to increase the student activity stations
Complete documentation (example of practical work, procedure sheets, production, quality, owner's manual, instructions, wiring diagram, pneumatic, mechanical, ...)

Description

- Modular line consisted of 1 to 8 machines
- Manufacturing / Product development
- Filling by volumetric dosing
- Filling by weight dosing
- Capping
- Compliance control
- Cartoning
- Palletizing

Option supervision in Ethernet network , ref. MLP800 on request

The robust design of this equipment makes it perfectly suited for use in schools.
Its anodized aluminum structure on wheels makes it extremely robust as well as great flexibility of integration into your premises.
The manufacturing of this equipment meets European machine directive

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

Illustrations

Technical details



MLP 100: preparation machine of semi-pasty liquid product.

The + technical training: multiple regulation technologies (regulation of simple temperature or cascade, regulation of temperature via wave train or phase angle, speed regulation with PID parameters and visualization of the effects of pumping, of error ...)

The + training at the processing: product manufacturing / implementation recipes of preparation, parameterization

MLP 205: machines containers feed table. This table is used to continuously supply the rest of the line in jars and bottles

MLP 315: metering machine of volumetric liquid

The + technical training: adjustments and mechanical interventions on the metering system, multi-technical maintenance.

The + training at the processing: process of filling dosage, parameterization, change of containers, operations of quality control, process stability...

MLP 325: weight filling machine

The + technical training: technology of positioning by encoder and weighing by sensor with strain gauges

The + training at the processing: the parameterization quality control (calibration, capability, repeatability SPC)

MLP 335: capping machine of pots and of bottles

The + technical training: cycle management of unstacking, polar manipulators, field bus ASI, laser sensor

The + training at the processing: parameterization, format change settings, batches management, traceability, and process efficiency.

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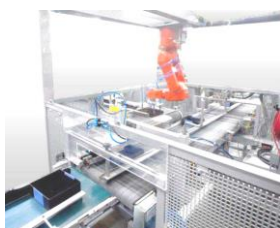
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As part of the continuous improvement of our products, this technical specification may be modified without previous notifying

MLP001



MLP 500



MLP 550



MLP 700

MLP 345: machine of control conformity by camera

The + technical training: operation of a camera of quality control, procedures for image calibrations, TCPIP protocol

The + training at the processing: parameterization, settings change in format, notion of sorting, notion of periodic control, of the reliability of the control.

MLP 500: automatic cartoner

The + technical training: linear axis with a servomotor - position controller

The + training at the processing: parameterizing of operation, tool change, settings, change of container and product change

Or MLP550: cartoner 6-axis robotic arm

The + technical training: study & control type 'Pick & Place' of an industrial arm, simulation software 3D Robot Studio multiuser

The + training at the processing: parameterization of the functioning, tool change settings, change of container and product change

MLP 700: 3-axis palletizer

The + technical training: brushless servomotor by variator Lexium-Bus CANopen-Hydraulic maintenance, various sensors (laser, inductive, ILS, roller ...)

The + training at the processing: parameterization, setting, choice of modular storage on pallets

Services required

Each machine features its own detailed technical sheet - consult us

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
- Configuration files (PLC, controller)
- Software :
- Certificate of conformity CE

Chart of machines usable in standalone stations

MLP 100 machine for liquid development	MLP 205 bottles feeding table for MLP line	MLP 315 automated filling machine for liquid - volumetric control	MLP 325 automated filling machine for granules and/or liquid - weight control	MLP 335 capping machine for bottles	MLP 345 automated camera selecting machine	MLP 500 packers machine of jars and bottles
X		X	X	X	X	X

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Illustrations non contractuelles / Illustrations not contractual

version : FT-MLP001-STD-B

Chart of descending compatibilities of the MLP range

DESCENDING COMPATIBILITY		DOWNSTREAM MACHINES						
		MLP 100 machine for liquid development	MLP 205 bottles feeding table for MLP line	MLP 315 automated filling machine for liquid - volumetric control	MLP 325 automated filling machine for granules and/or liquid - weight control	MLP 335 capping machine for bottles	MLP 345 automated camera selecting machine	MLP 500 packers machine of jars and botlles
UPSTREAM MACHINE	MLP 100 machine for liquid development			the MLP 100 operates independently. Therefore, the liquid product can be conditioned on the MLP 315				
	MLP 205 bottles feeding table for MLP line			the MLP 205 must be placed in front of the first of the machines MLP 315, 325, 335 or 345 used "				
	MLP 315 automated filling machine for liquid - volumetric control				the MLP 315 may be positioned upstream of the MLP 325 and 335 "			
	MLP 325 automated filling machine for granules and/or liquid - weight control			the MLP 325 may be positioned upstream of the 315 MLP		the MLP 325 may be positioned upstream of the MLP 335		
	MLP 335 capping machine for bottles						the MLP 335 may be positioned upstream of the MLP 345 and 500	
	MLP 345 automated camera selecting machine							the MLP 345 may be positioned upstream of the MLP 500
	MLP 500 packers machine of jars and botlles							

MLP001



Example of compositions of lines								
line configuration	MLP 100 machine for liquid development	MLP 205 bottles feeding table for MLP line	MLP 315 automated filling machine for liquid - volumetric control	MLP 325 automated filling machine for granules and/or liquid weight control	MLP 335 capping machine for bottles	MLP 345 automated camera selecting machine	MLP 500 packers machine of jars and bottles or MLP 550 6 axes robotic arm	MLP 700 palettiseur 3 axes
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