



Argo **PRO**  
Automated systems

**Safety**  
Systems<sup>®</sup>

# Argo *PRO* Automated systems

## The Lean Management of auxiliary materials



The Concept of Lean management is applied by Manufacturing Enterprises to reduce waste and to rationalize all management operations.

Our new Automated Systems Argo *PRO* represent the result of more than fifteen years of field experience of our Company in the PPE Automated Distribution.

Recently, a full range of automated devices has been entirely designed and produced in Italy to offer to the Enterprises choosing a Lean Management of the auxiliary materials (PPE, MRO, tools, workshop equipment) quick and flexible replies. In proximity of working areas, we provide distribution points to assure the availability and traceability of all materials 24h/365.

Automated Dispensers, Lockers, Warehouse Terminals, Collection Units, Access control...are designed with common Design Concept, all connected on-line and in real time to Ethernet net, Wi-Fi, GSM. All these devices use our new Software Argo *PRO* platform, easily interfaced to User Companies Management Software, from Procurement to Logistics and Human Resources.

The enabled users, identified by personal badge reading or other identification ways, are authorized or refused to withdrawals/ accesses according to the parameters assigned to job profiles, set on user-friendly database, monitoring all events in real time. A wide customizable reporting allows data treatment and storage.

Our Technical Department offers a full hardware and software assistance by the web portal [www.supportlanzi.com](http://www.supportlanzi.com) providing a wide experience for Argo Pro software integration with the most common Management Software ( e.g. SAP, AS400, Teamsystem, Microarea, Zucchetti...)

# Argo *PRO* Software

## Software solutions

Argo DA *PRO-XL* : Automated dispenser for small/medium sized PPEs and high turnover materials.

Argo DR *PRO-XL* : Distribution unit and materials collection.

Argo LK *PRO* : Multifunction Automated Locker.

Argo TM *PRO* : Management system of indirect materials distribution.

Argo GR *PRO* : Automated collection Unit.

Argo TS *PRO* : Automated warehouse with turning carousels for spare parts.

Argo AC *PRO* : Access control system by personal badge identification linked on line to Argo *PRO* software.

## Software functions

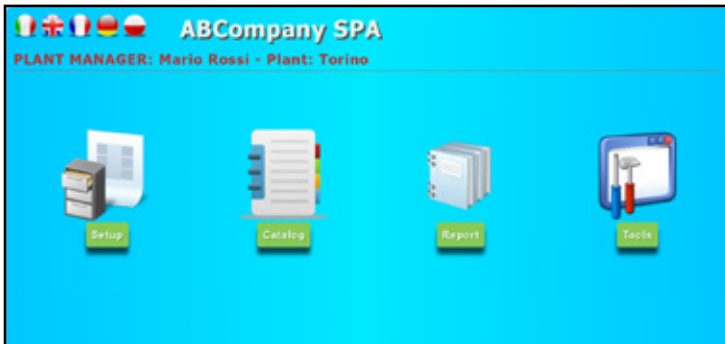
- Users' identification by company personal ID badge.
- Enabling the withdrawal of the assigned products to users according to their job profile.
- Comply with the pre-set maximum withdrawal limit.
- Identify users that are withdrawing less than the pre-set minimum product withdrawal limit during working days (which may be calculated also for the actual working days if interfaced to the HR System).
- All vends are recorded in real-time as well as the attempts to get an unauthorized or exceeding limits PPE.
- Warning on low stock products level, by constant monitoring and alert e-mail sending.
- In case of frequent job rotation the software can interface with both HR and EHS managements.
- Automatic job profile assignment according to the settings configured at customer's care (department, job requirements, cost center...).
- The loading plan can be set up for various products on the same plate.
- The withdrawal can be bound to the disposal of an used product into Argo GR *PRO*.
- Detailed or brief reports with summary tables and trend graphs.

## Management benefits of the automated distribution

- Continuous PPEs availability in workshops 24 X 365
- Distribution trend control
- Saving on inefficiencies, waste elimination
- Best optimization of stock planning
- On line available reports
- Comply with European Supervisory Obligations to provide each worker with the right PPE
- Adoption of suitable, stable and documented management models

# Argo PRO Reporting

All data are stored on the Company server. Data mining is available anytime in the most common formats (Excel, CSV, pdf)



Pic. 1 Main menu

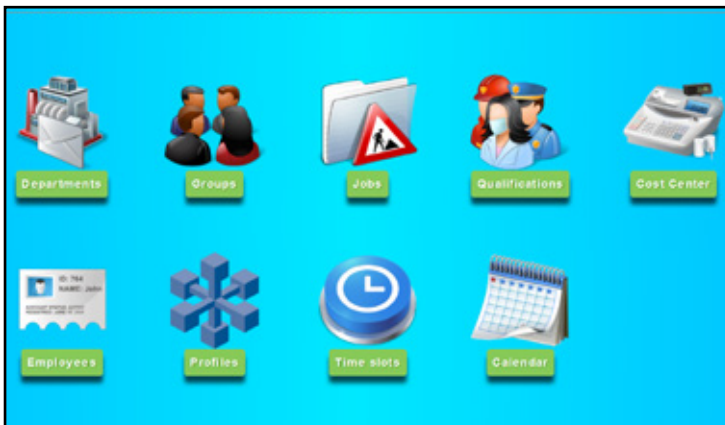
Withdrawals number -> Transaction Date: From 01/06/2015 00:00:00 - To 30/06/2015 23:59:59

Cost Center

	366225	776655	854125	
GDY451 - GUANTI TAGLIO 5	2	1	1	4
GKK120 - GUANTI MAGLIA	0	3	1	4
GT101MT - GUANTI MONOUSO	3	1	4	8
	5	5	6	16

Buttons: Graphs, Quick Report, Log

Pic. 4 Brief reports



Pic. 2 Menu Setting

Transactions List from 01/06/2015 00:00 to 30/06/2015 23:59

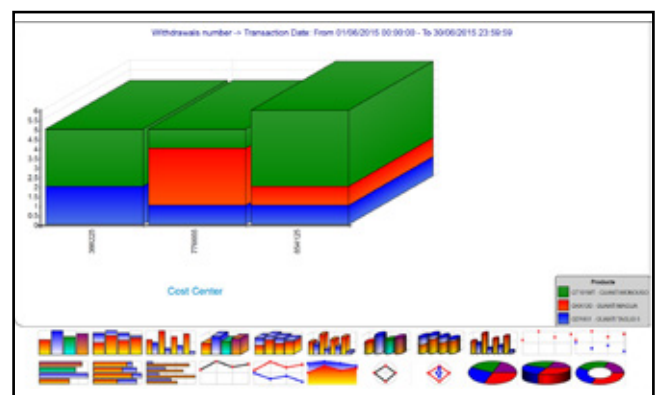
Date	Terminal	Badge	Withdrawal profile	Product	Internal code	M. U.	Quantity	Price	Response
Employee : BIANCHI LUIGI									
01/06/2015 09:10:18	20110	300499	MON7AG500	GDY451 GUANTI TAGLIO 5	SAB01549	PA	1	8.00	PRELEVIO REGOLARE
01/06/2015 09:17:58	20110	300499	MON7AG500	GDY451 GUANTI TAGLIO 5	SAB01549	PA	8	8.00	LIMITE_MAX_RAGGIUNTO
01/06/2015 09:20:21	20110	300499	MON7AG500	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
02/06/2015 09:20:24	20110	300499	MON7AG500	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
03/06/2015 09:20:27	20110	300499	MON7AG500	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
Employee : NERI ANTONIO									
01/06/2015 09:20:45	20110	348534	MON7AG500	GDY451 GUANTI TAGLIO 5	SAB01549	PA	1	8.00	PRELEVIO REGOLARE
01/06/2015 09:20:48	20110	348534	MON7AG500	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
01/06/2015 09:21:03	20110	348534	MON7AG500	GKK120 GUANTI MAGLIA	W058418	PA	1	3.00	PRELEVIO REGOLARE
01/06/2015 09:21:07	20110	348534	MON7AG500	GKK120 GUANTI MAGLIA	W058418	PA	8	8.00	LIMITE_MAX_RAGGIUNTO
04/06/2015 09:21:17	20110	348534	MON7AG500	GKK120 GUANTI MAGLIA	W058418	PA	1	3.00	PRELEVIO REGOLARE
Employee : VERDE PABLO									
01/06/2015 09:21:35	20110	348534	VERDECIATURA	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
01/06/2015 09:27:58	20110	348534	VERDECIATURA	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
01/06/2015 09:21:44	20110	348534	VERDECIATURA	GDY451 GUANTI TAGLIO 5	SAB01549	PA	8	8.00	PRODOTTO_ADR_ABBUTTA
01/06/2015 09:27:58	20110	348534	VERDECIATURA	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE
04/06/2015 09:28:24	20110	348534	VERDECIATURA	GKK120 GUANTI MAGLIA	W058418	PA	8	8.00	PRODOTTO_ADR_ABBUTTA
04/06/2015 09:27:58	20110	348534	VERDECIATURA	GT101MT GUANTI MONOUSO	WY741258	P2	1	1.00	PRELEVIO REGOLARE

Buttons: Quick Report, Log

Pic. 5 Transactions report for employees



Pic. 3 Detailed reports



Pic. 6 Graphic report

# Argo DA PRO-XL

## PPE and high turnover materials Automated Dispense



- Wide LED illuminated showcase with convex-profile according to the turning carousel's curvature.
- 14 multiple slots trays on a rotating carousel activated by a frontal push-button.
- Slots 100 mm high, can be adjusted for each tray (6-12-18-24-36-72 slots per tray). Maximum product capacity: 1008 slots.
- Optional slots 200 mm high, can be adjusted for each tray (6-12-18-24 slots per tray).
- Easy on site re-adjustment of the number of slots per tray.
- Management of different products on the same tray (up to 18 products per tray).
- Convex-profile sliding doors with manual handling, visual and acoustic warning when the door has been wrongly left open.
- ID badge reader (magnetic/contactless,..)
- Lighted push buttons to show the enabled products and for the selection of the product to withdraw.
- Graphic product identification by icons beside each sliding door.
- Automatic positioning of the selected product on the first full slot.
- Large 4 - line LCD alpha-numeric back-lighted display to alert users.
- 7" display to communicate with users by images or texts in HD graphic format.
- Connection to Ethernet LAN/Wi-Fi/GSM.
- Data storage for each user job profile to allow the withdrawal of the assigned products only, also in case of network off-line.
- Self-diagnosis at pre-settable time frame with automatic warnings in case of malfunctioning.
- Embedded shelf : 180 liters capacity for products storage.
- Energy Saving function for stand-by mode activation during periods of inactivity.

Technical Features	Power supply 220 VAC - 50 Hz - 150 W	
	Dimensions (mm)	H= 2000
		W= 1000
		D= 755
Weight: abt 270 kg		

Lighted push buttons to show the enabled products and for the selection of the product to withdraw

Slots 100 mm high, can be adjusted for each tray (6-12-18-24-36-72 slots per tray)

Option: slots 200 mm high, can be adjusted for each tray (6-12-18-24 slots per tray)



# Argo DR *PRO-XL*

## Distribution unit and materials collection



Up to 72 slots per tray (maximum product capacity :  
72x14=1008 slots)

Argo DR *PRO-XL* is the variant of automated dispenser Argo DA *PRO-XL* .

It permits the contemporary withdrawal and the return of tools and other materials, where the traceability of distribution and return is required, by the use of the Company personal badge, according to the assigned job profile, with the following steps:

- User is identified through personal badge.
- Argo DR *PRO-XL* advises the user about withdrawable products according the current authorizations.
- User selects the product, opens the sliding door, withdraws the new item and in the same time returns the used item in the same empty slot.

Withdrawals data are stored, reporting time, day, tray/slot and user's name.  
In case of missing return it is easy to identify to the improper operator.

# Argo LK *PRO*

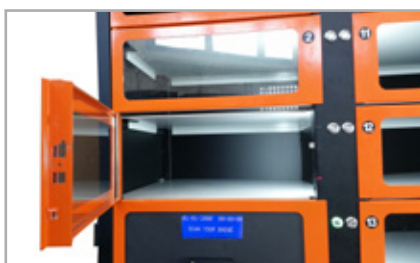
## Multifunction Automated Locker



- **FUNCTION:** Storage, items withdrawal/return by authorized and identified employees through the company badge, and immediate registration of each operation.
- **STORAGE CAPACITY:** Standard version with 19 lockers for each Argo LK *PRO-19* occupying 0.58 sm in total. .
- **ONLINE:** Cable or Wi-Fi Ethernet connection to the company network for real-time management of transactions and availabilities by the authorized users.
- **WITHDRAWAL/RETURN/LOADING PROCEDURE:** Argo LK *PRO* shows the user the available slots for withdrawal; the user shall press the button of the desired slot.
- **OFFLINE:** In case of connection break Argo LK *PRO* will save a copy of the server database. Argo LK *PRO* will therefore operate normally and update the server as soon as the network signal is back.
- **AUTODIAGNOSIS:** Argo LK *PRO* regularly performs the auto diagnosis and sends signals in case of breakdown
- **INVENTORY:** Real-time report, always up-to-date
- **EFFICIENCY:** In order to save time during multiple withdrawal, return and restock operations with Argo LK *PRO* the doors are sequentially unlocked and enlightened.
- **EMERGENCY:** In case of need it is always possible to open the slots with the provided emergency key (NON-DUPLICABLE).
- **STORAGE CONTROL:** An e-mail report can be scheduled on Argo LK *PRO* to be forwarded to specific recipients and containing the list of the withdrawn items and required re-stock of the same. Furthermore, for each article a minimum stock amount is set out and, when reached, an e-mail message of warning is sent to the people in charge of the restocking items.
- **INTERCONNECTION WITH THE CORPORATE**
- **INFORMATION SYSTEM:** Argo LK *PRO* can operate with the most common IT management systems for automatic data registration.

Technical sheet - 19-slot model	Power Supply 220 VAC - 50 Hz - 150 W	
	Locker dimensions(mm)	H= 2000
		L= 1000
		P= 580
	Slot dimensions(mm)	H= 160
		L= 400
P= 550		

Slow door with the showcase



Illuminated button to highlight the available slots for withdrawal, in the first place, and the selected slot, in the second place.



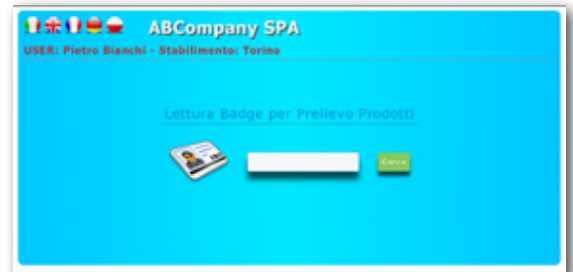
# Argo TM *PRO*

## Management system of indirect materials distribution

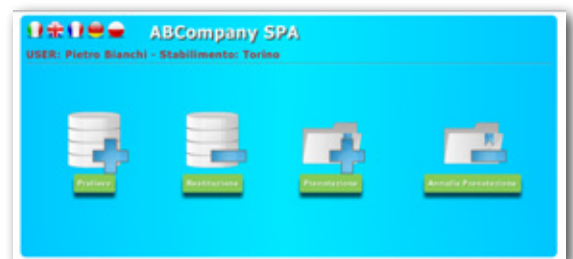
Argo TM *PRO* system allows the authorized operator to book, deliver and return indirect materials with a low turnover and/or dimensionally incompatible with AD (shoes, garments, tools, spare parts etc..), with the on line registration of all transactions through any stationary or mobile device being at operator's disposal.

### Functions

- Booking/Delivery/Return of the materials chosen from the personalized electronic catalogue;
- Management of maximum/minimum quantities (withdrawal limits);
- On-line connection in real time to Argo *PRO* on-line;
- Allocation of products to the users on the basis of withdrawals profiles;
- Withdrawals data management in real time;
- Elaboration on the supervisor PC of reports per booking/delivery point, per user, per user's profile, per product, per service, per Cost Centre,
- Database in common with Argo DA *PRO-XL* system.



Identification of the user



Selection of the operation requested:  
withdrawal/booking/return

Use Argo TM *PRO* on  
whichever device





# Argo GR *PRO*

## Automated collection Unit

- Reader for Company ID badge (magnetic, contactless...).
- Alpha-numeric display to alert users.
- 7" display to communicate with users by images or texts in HD graphic format.
- Connection to Ethernet LAN/Wi-Fi/GSM.
- Graphic identification for the products to be stored by the means of personalized icons.
- Horizontal door with sliding opening to deposit the used items in the bin.
- Warning on the unit collection filling level and message sending to the operators in charge of the collection.
- Frontal key door for the wheeled bins of 120/240 litres UNI 840

### Software functions

- Users' identification by the company ID badge. Authorization of enabled users for products deposit.
- Record of storages and unauthorized deposit attempts.
- In case of frequent job rotation, the software can interface with both HR and EHS Management Systems.
- Automatic workers' authorisation according to the settings configured at customer's care (department, position, cost centre, role,...).
- Possibility of bounding the withdrawal from Argo DA *PRO-XL* to a previous disposal of an used product.
- Real-time monitoring of the storage operations.
- Detailed or brief reports with summary tables and trend graphs.

### Everything under control

- Improvement on users sense of responsibility about collection, recovery and recycling of materials.
- Inefficiency reduction due to disposal of unsuitable materials.
- Integration of the distribution process and of the processes of disposal/ recovery and regeneration of the collected materials.



Technical Features	Power supply 220 VAC - 50 Hz	
	Dimensions (mm)	H= 1450
		W= 700
		D= 800
	Deposit automatic door dimensions (mm)	W=400
	D=270	
Access space for bin's replacement	H=1050	
	W=610	

# Argo TS *PRO*

## Automated warehouse with turning carousels for spare parts



- **FUNCTIONS:** real time tracking of the identified and authorized personnel through the company's badge for the storage, withdrawal and return of spare parts
- **STORAGE CAPACITY:** a maximum of 1008 different products for each ARGO TS *PRO* on 0,75 mq in plan dimensions. 14 turning carousels subdivided in 100 mm high slots trays with adjustable width ( 6-12-18-24-36-72 slots/turning carousel per turning carousel)
- **TOUCH SCREEN DISPLAY:** 15" screen for the driven selection of the products
- **EXPANDABILITY:** to each Argo TS *PRO* can be combined different "slave" devices to a maximum of 64. A lighted push buttons shows which unit contains the requested product.
- **ON LINE:** via LAN/Wi-Fi connection to the company's Ethernet net for the management and the real time update of the transactions and of the availability of the spare parts by the enabled users.

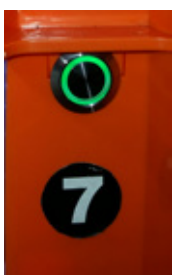
Technical Features	Power supply 220 VAC - 50 Hz - 150 W	
	Dimensions (mm)	H= 2000
		W= 1000
		D= 755
Weight: abt 270 kg		



Touch screen display: 15" screen for the driven selection of the products

Slots 100 mm high, can be adjusted for each tray (6-12-18-24-36-72 slots per tray)

Option: Slots 200 mm high, can be adjusted for each tray (6-12-18-24 slots per tray)



Lighted push button to show the slots ready to be opened in order to withdraw/return/refill the product



- **WITHDRAWAL PROCEDURE:** the enabled user specifies on the touch screen display the type of operation he has to accomplish (ordinary/extraordinary maintenance, breakdown etc), the eventual order number and the specific automated dispenser. Argo TS *PRO* shows the available spare parts (showing images, commercial codes, descriptions, management codes) per category with the possibility to directly type in the management code. The user indicates the desired spare parts quantity (according to presetted withdrawal limits) and activates a lighted push button in correspondance of the first full slot (going in sequence). If a spare part is not available inside the Argo TS *PRO* the user is using the touch screen display shows the Argo TS *PRO* that contains the needed spare part.
- **RETURNING PROCEDURE:** a user that has not utilized a withdrawn product is able to return it pointing it on the touch screen display. Argo TS *PRO* shows the latest withdrawn spare parts, activating a lighted push button in correspondance of the first slot to open in order to return the unused spare part.
- **REFILLING PROCEDURE:** the enabled user to the refilling activity indicates on the touch screen display the product code needs to be reinstated, then Argo TS *PRO* activates a lighted push button in correspondance of the first slot to open in order to complete the refilling.
- **PLANNING PROCEDURE:** the enabled user can schedule the maintenance activity, specifying the spare parts need to be utilized in the activity. Once the maintenance technician has been identified through his company's badge Argo TS *PRO* delivers all the components have been previously reserved for the specific activity.
- **SETUP PROCEDURE:** the quantity per product needs to be stored in can be planned from a remote PC according to the slots positions (close or overlying to each other) in order to optimize the subsequent withdrawal/refilling activities.
- **OFFLINE:** in case of network off-line each Argo TS *PRO* contains inside a PC with the server's data storage replica. Argo Ts *PRO* then continuously operates with all its functions updating the server once the network's backs on-line again.
- **SELF-DIAGNOSIS:** at pre-settable time frame Argo TS *PRO* executes a self-diagnosis with automatic warnings in case of malfunctioning.
- **ENERGY SAVING:** Argo TS *PRO* goes on stand-by mode during a pre-settable period of inactivity.
- **INVENTORY:** always updated and available in real time.
- **EFFICIENCY:** to optimize withdrawal/returning/refilling operation timing of the same product Argo TS *PRO* subsequently unlocks the specifics sliding doors indicating them through lighted push button.
- **EFFECTIVE OPENING CONTROL:** once Argo TS *PRO* unblocks a specific sliding door to allow a withdrawal/returning/refilling activity, the user has a pre-set time lapse to conclude the operation: if the user doesn't open the door during this time, Argo TS *PRO* deletes the transaction.
- **EMERGENCY OPENING:** if necessary it is possible to open the Argo TS *PRO* frontal door using the given "not duplicable" security key . The event will be recorded and reported on the operative report.
- **STOCK'S MONITORING:** at scheduled time frame Argo TS *PRO* sends to presetted e-mail addresses a report that shows the withdrawn products and the items need to be refilled. For each product It is possible to program a minimum quantity to have in stored in: if this limit is reached Argo TS *PRO* will automatically generate warning e-mails addressed to the responsables of the refilling activity.
- **INTERACTION WITH THE COMPANY'S OPERATIVE SYSTEM:** Argo TS *PRO* can interact with the most common operative systems used, to manage the automatic recording of the used materials subdivided per cost centers/ operative units etc.

Example of expandability: 1 master + 3 slaves



# Argo AC *PRO*

## Access control



Access Control points for opening/closing electrical devices such as electric locks, parking bars, turnstiles, sliding doors, electric gates.

The database is in common with the automated distribution units Argo DA *PRO-XL*, Argo DR *PRO-XL*, Argo TM *PRO* and can be integrated with fixed time frames or users' groups.

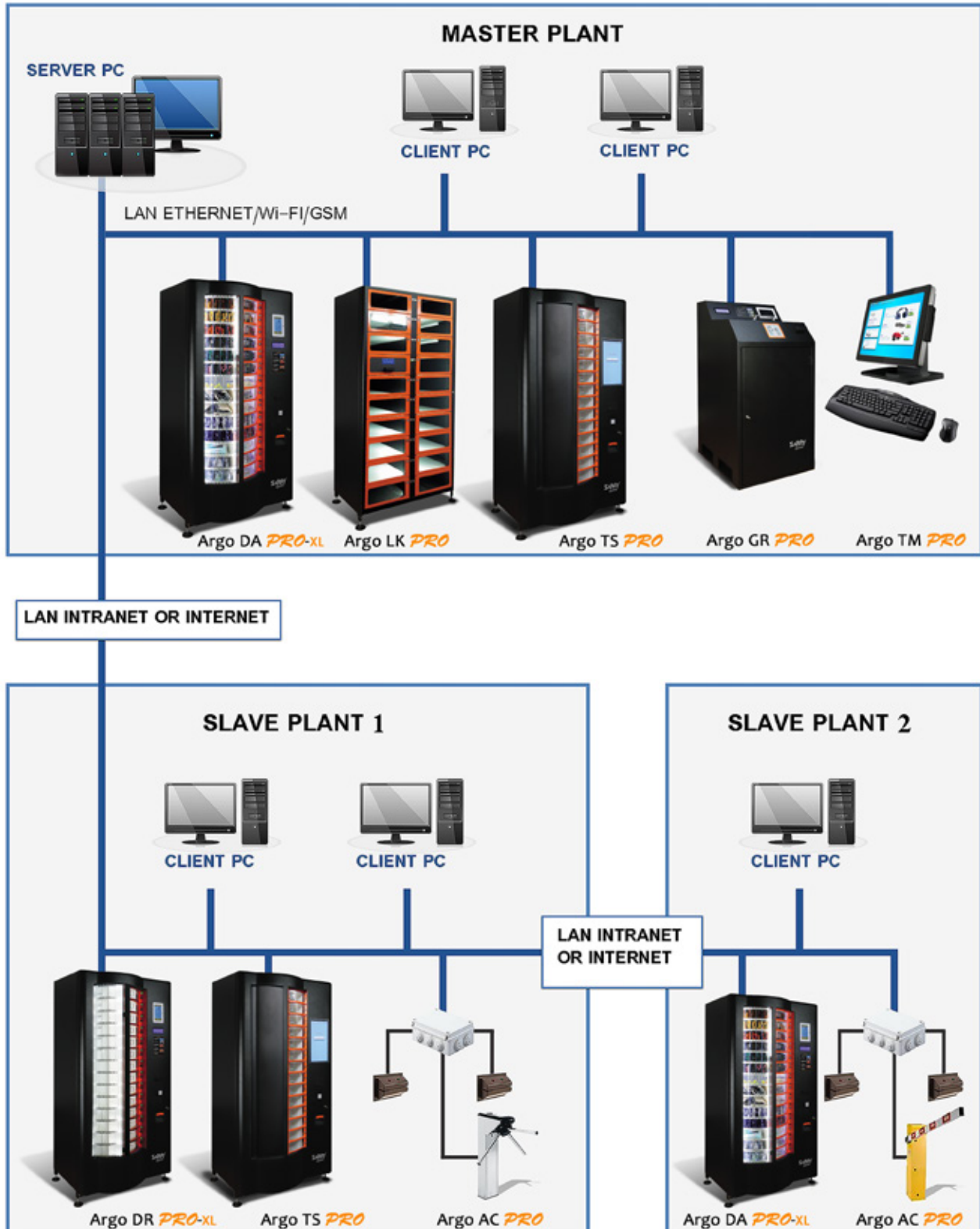
Present/absent people list is updated in real time with the possibility of managing meeting points in the event of emergency evacuation.



# Argo PRO

## System Synoptic

### Multiplant example





# Watch the VIDEO **Argo DA PRO-XL**



Fast & User-friendly! A closer look at how it works!

1 withdrawal in a minimum of **7** seconds

<https://youtu.be/zwMlqz2oEdc>



# Watch the VIDEO **Argo GR PRO**



Automated collection and recovery unit of waste materials

<https://youtu.be/mCtRpmurez0>

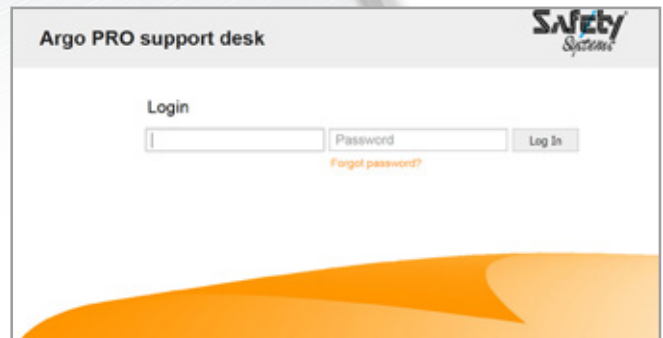
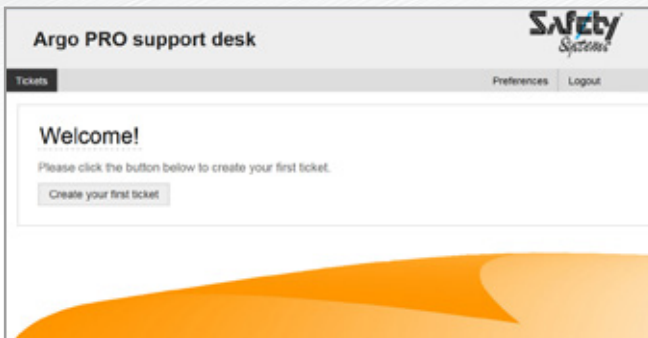




## Assistance and Technical Support

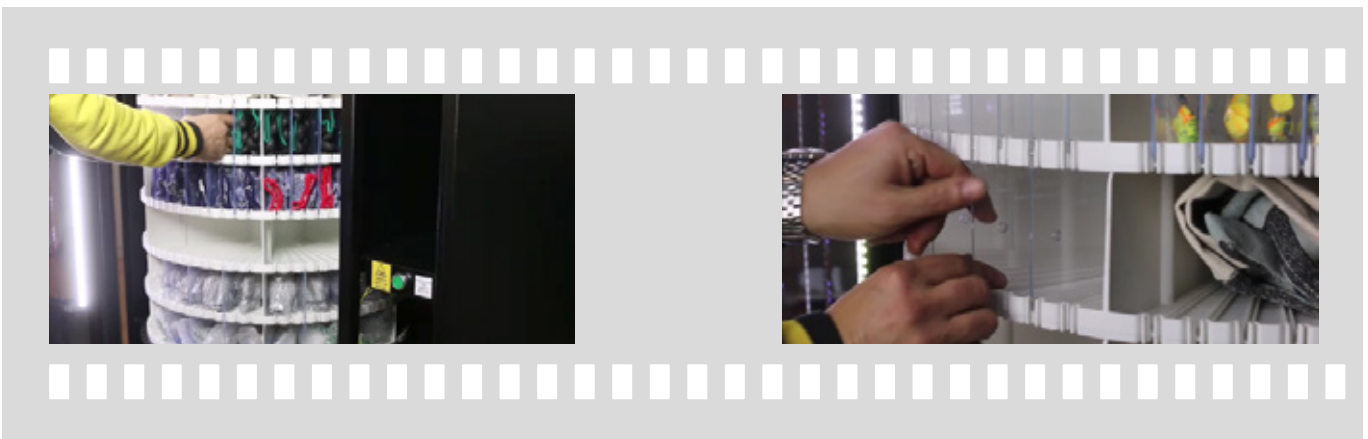
Our Technical Department offers a full hardware and software service by assistance request on the web platform:

[www.supportlanzi.com](http://www.supportlanzi.com)



## Video Tutorials

Video tutorials for training of the personnel in charge of Automated Distributor Argo DA **PRO-XL** refilling operations and loading plan modifies.



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