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Titan
System

Automatic management of folded garments 24 hours a day

ZUCCHETTI CENTRO SISTEMI | **AUTOMATION DIVISION**
THE SOLUTION THAT CREATES SUCCESS

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Titan System is the solution for the automatic management of folded garments, of uniforms for public institutions or industries. The system works with RFID technology, enabling the complete monitoring and extensive control of the garments' movements, from the acceptance of soiled clothing to the automatic delivery of clean uniforms 24 hours a day. The system consists of:
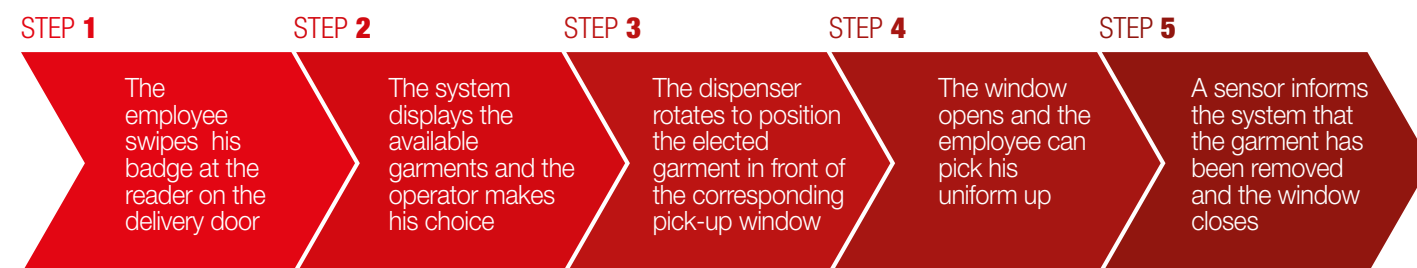
- *Redelivery Door for clean garments with rotating dispenser*
- *Return Chute for soil garments*
- *Management Software*

Functioning

An RFID microchip is attached to each garment to permit total garment tracking. This chip gives the article a unique identification. The identity of each garment is linked to the employee whom the garment belongs. It is also possible to link garments by size or style without linking them to any particular user so that any employee can use them. Information of all transactions are automatically stored into the system's database.
The data of employees and garments is transmitted to a server via an Ethernet connection, the equipment can be interfaced with other software management via DLL or Web Services or File Transfer.

Delivery of clean garments

STEP **1**	STEP **2**	STEP **3**	STEP **4**	STEP **5**
The employee swipes his badge at the reader on the delivery door	The system displays the available garments and the operator makes his choice	The dispenser rotates to position the elected garment in front of the corresponding pick-up window	The window opens and the employee can pick his uniform up	A sensor informs the system that the garment has been removed and the window closes

Collection of soil garments

STEP **1**	STEP **2**	STEP **3**	STEP **4**
The employee returns the soil uniform in the automatic return chute	The system records the transaction updating the database	The credits of the employee are updated	The laundry service collects the uniforms already knowing the exact number of garments

Rotating Dispenser for folded garments

The new Dispenser for folded garments, has in its standard version a capacity of 240 garments. The dimensions of the slots have been designed specifically for hospitals, but can be modified to distribute other products. The dispenser is particularly suited to distribute size garments and can easily be installed in corridors and small spaces due to its small dimensions (the Dispenser needs just 1 square meter).
The only thing the dispenser needs is a socket of 220 V and an Ethernet connection. The hospital can also choose for a Wireless dispenser.

Advantages

SIMPLICITY
The system is conceived and designed as a product very easy to use and to maintain. All instructions are displayed on a touch screen installed directly on the automatic return chute and are easy to follow.

TRANSPARENCY
Thanks to the database, the system provides both the manager and the employee a complete control on the availability/handling of garments. It also provides detailed statistics both per handling of garments and per worker. This allows to manage all operations per day/week/month and to make the total inventory of uniforms.

SAFETY
The electric delivery doors for the pick-up of garments, are provided with adequate safety closure systems, which allow the operator to make the pick-up of the garments in total tranquility. The return chutes for soil items, similarly, ensure full security and guarantee a scan rate of almost 100 % of the garments returned.

ADAPTABILITY
The size of the doors allows installation in limited spaces. The devices can be interfaced with other software management and pre-existing employee identification cards can also be used within the hospital/company. There is also the possibility to expand the system with additional devices and instrumentation even after the installation.

EFFECTIVENESS
The return chutes and/or the automatic delivery doors are active 24 hours a day and with the installation of extra chutes/doors the waiting time of employees can be easily reduced.

SAVING
Thanks to the database, the management of the uniforms is easier and cheaper. Remarkable is the time savings of the employees, as more return chutes/redelivery doors can be added, maintaining active the dialogue between them thanks to the simple Ethernet connection.

❶ DISPENSER
Height cm 2.035
Width cm 1.030
Depth cm 1.030

❷ RECEIVER
Height cm 2.041
Width cm 1.110
Depth cm 1.203