

ASD **Systems**[®]



**MULTIFUNCTIONAL VENDING MACHINES
WITH A DEDICATED IDS APPLICATION
FOR ENSURING UP TO 50% SAVINGS**



» PROVEN BRAND WITH SOLID EXPERIENCE

ASD Systems is a Polish manufacturer of innovative vending devices. Our mission is to optimize stock management in the companies of our Clients through our original, fully automated vending machines.

Our automated devices are designed for every type of goods, including safety products (PPE), tools, ancillary materials, office supplies and consumables – everything that generates cost in production Companies and should be under control.

Both ASD Systems' devices and IDS software are produced and developed in our principal place of business in Bielsko-Biala. Our know-how, gained while conducting various projects of automatic distribution applications guarantees selection and implementation of the most effective solutions.



WHAT ARE THE BENEFITS OF CO-OPERATING WITH US?

Innovative solutions for all industries

all-in-one vending machines with a dedicated IDS application

100% Polish production

both the vending machines and software are developed in Poland on the basis of copyright ASD Systems projects

Flexible terms

the ability to either purchase or lease the machine

» IDS - INTEGRATED DISTRIBUTION SYSTEM

Along with the dispenser, we also supply the IDS software (Integrated Distribution System). The tool allows for easy data management and fast communication between the server and the vending machines.

IDS application provides a view with detailed information about the distributed products and the current inventory through a web browser, available on any device. It is adapted to the specificity and needs of businesses from all branches of the industry.

The combination of software and the vending machine provides maximum control over consumption articles in manufacturing companies. This contributes to the increase of the quality of work in procurement, production, OHS and controlling departments and amongst employees themselves.

IDS APPLICATION ENSURES

management of individual products, product categories, companies and distributors, employees, RFID cards, system users and machines

possibility to define, generate and print any reports

constant access to stock

automatic transfer of information about the state of the system to authorized persons

AUTOMATIC WAREHOUSES

» ONE MACHINE, MANY OPPORTUNITIES

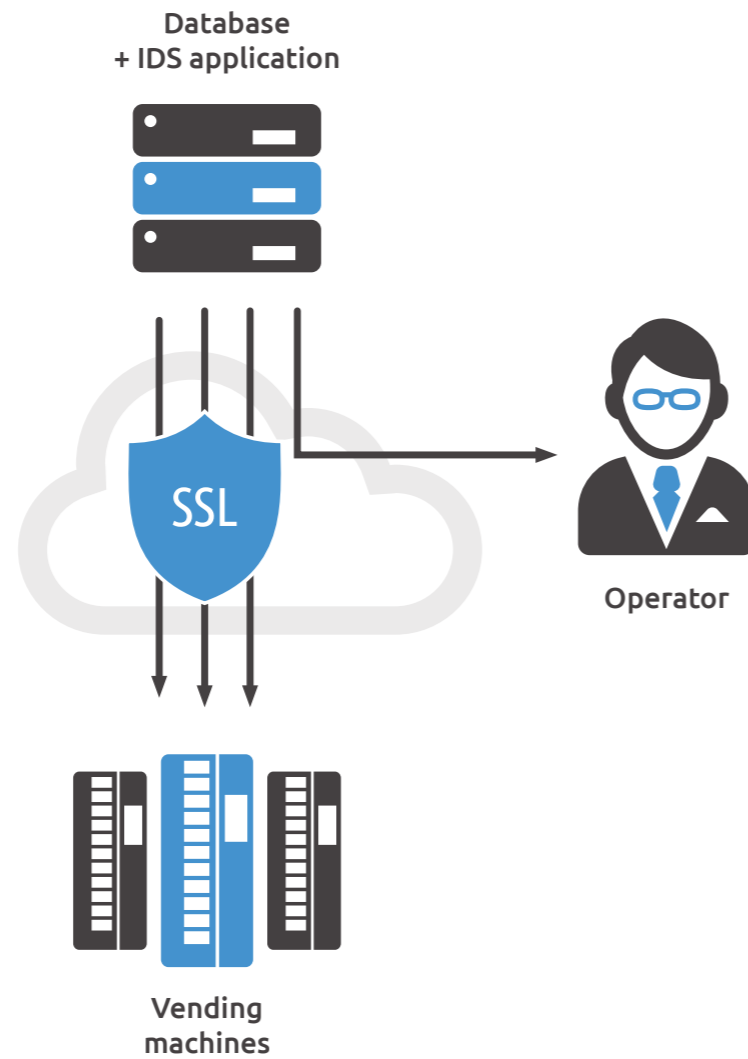
The combination of the vending machine and integrated distribution system (IDS) allows for a 24-hour control over distribution along with constant availability of the products.

- » **24h/7 availability** – products can be picked up irrespective of warehouse working hours
- » **stocks under control** – reduction in stock and thorough product flow monitoring
- » **drop in the consumption of products by up to 50%** – through full control over the distribution process and the option to set up individual limits for each employee
- » **immediate generation of reports** – the option to create cross-reference lists useful for purchasing, work safety, controlling and accounting departments
- » **simplification of supplies** – constant access to current stock level
- » **saving time** – minimizing time necessary for the collection of products by employees
- » **no errors** – access to each product is assigned to individual employees based on department

Attention - Detailed information about the IDS application can be changed without prior notice due to continuous product development. If you have questions, please contact the Technical Department.

HOW DOES IT WORK?

The application is launched on the server. It provides the machines with current, complete data about the products and their categories, user rights and stock level. This information is afterward used for the distribution of goods among employees. SSL communication is carried out through Operator LAN network, GSM or optionally Wi-Fi. The machine, through a dedicated API, communicates with the IDS application which provides the required data, saves the sent parameters and ensures system integrity. The connection is encrypted and each machine - authorized.



» SUPPORT, SYSTEM REQUIREMENTS

We deliver the IDS system along with full substantive and service support. Our IT department adapts the application to various IT systems currently implemented in the company.

The system does not require installation of any additional software. To use application IDS, you only need:

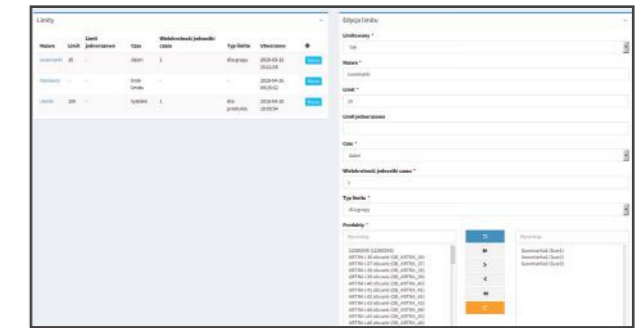
- » a device with Internet access
- » a Web browser

IDS FUNCTIONS

1

User profiles

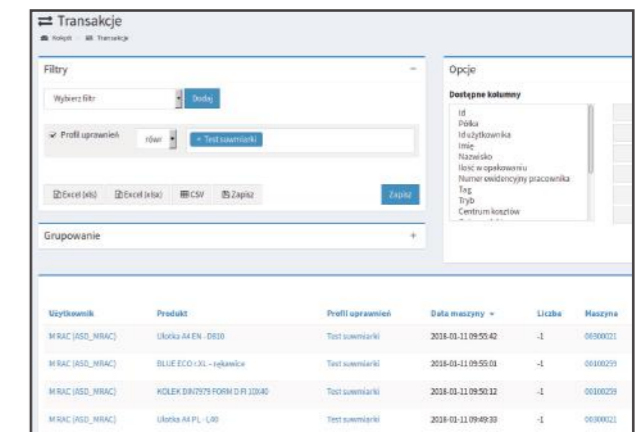
The ability to precisely define access to products for groups of employees. User profiles allow to create specific limits, determine their duration and the range of products that they include.



2

Record filtering

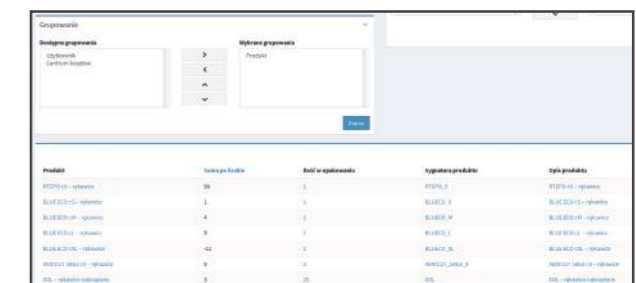
Filtering the displayed records in transactions, logs, accounts, etc. This feature allows to display only specific items, for example, in transactions - upon selecting the user profiles filter - you can see the collection of users assigned to a specific profile.



3

Grouping transactions

Grouping transactions. From IDS level you can summarize transactions for specific products, users or cost centers.

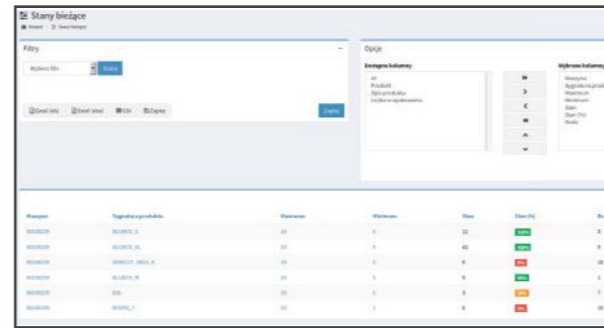


IDS FUNCTIONS

4

Current levels

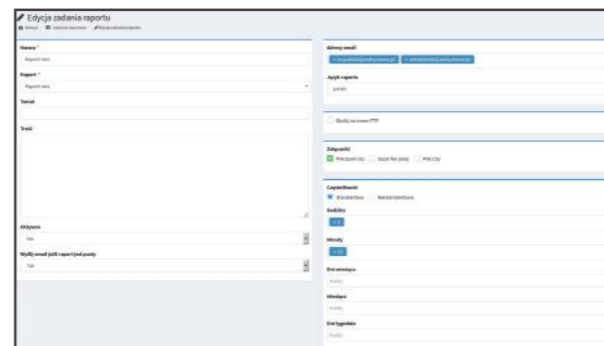
Ability to define maximum and minimum levels for specific products in specific distribution points.



5

Reports

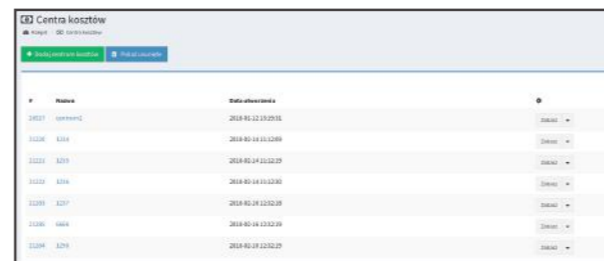
Generating reports and defining tasks for their automatic shipping. By combining the above mentioned filtering and grouping, you can create a report which will meet the varied expectations. However, in the case of product levels there is a possibility to generate a report with information about the deficiencies and percentage rates of products.



6

Company settings

Possibility to define cost centers and departments as well as create any characteristics and afterward assign them to users.



IDS FUNCTIONS

7

Machine mesh drum

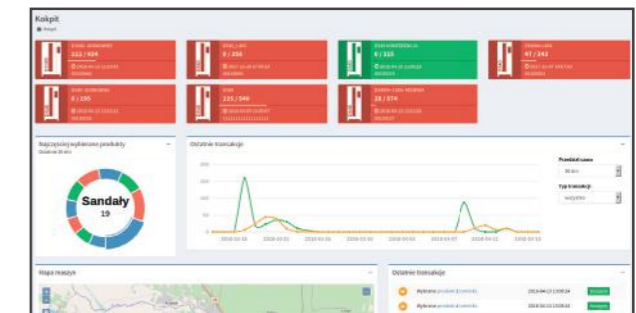
Preview of the machine's mesh drum which allows to accurately determine the location of the loaded products as well as define the loading scheme.



8

Management

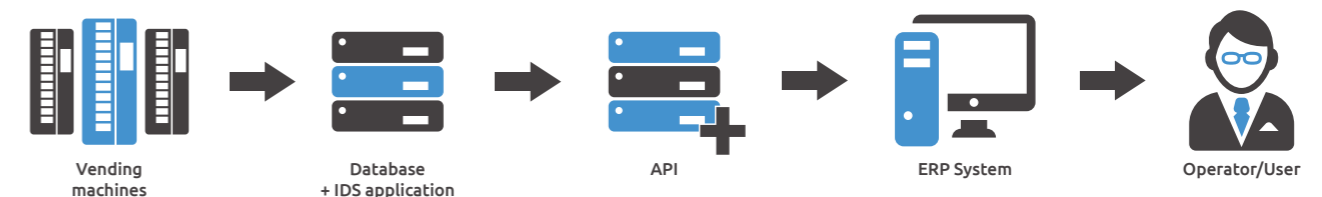
Management of all vending machines in the company from a single account.



» INTEGRATION WITH EXTERNAL SYSTEMS

Integration of IDS and customer's systems allows the customer to achieve synergy – the state when benefits of running integrated systems exceed the total sum of those from each systems operating separately.

Each instance of integration between IDS app and customer's system is carefully crafted to meet the needs of the customer. Solutions and technologies are always selected while assessing the given business model.



» AUTOMATED WAREHOUSES – KEY FUNCTIONS



- ABILITY TO PERSONALIZE THE DISTRIBUTION LIMITS**
Depending on the job position or the individual needs of each employee with access to the device.
- DISTRIBUTION RECORDS**
By linking the machine with the server, the system administrator obtains constant access to data on the distributed products and information on the amount of particular products in machines, updated in real time. The administration panel allows to generate and view reports with the data filtered by the desired criterion, for example, the employee or department in the company. The system offers the ability to export data into a spreadsheet or to files supported by accounting programs.
- SUPPORT FOR VARIOUS TYPES OF CARDS**
The user identifying interface is equipped with a reader that supports most standard proximity cards. The system provides integration of the device with non-standard solutions.
- MULTIPLE NETWORK INTERFACES**
Depending on the object's network infrastructure, you can connect the device to the server by using the Ethernet interface, Wi-Fi or GSM modem.
- FURTHER EXTENSION**
A machine with a screen and touch panel can be extended with other ancillary units, which are not equipped with a computer.
- DELIVERING AND RECEIVING OF PRODUCTS**
The software provides a wrong product return function and enables a user to leave information about the quality of the returned product.

» SMART CONSTRUCTION

- » **serviceability** - the machine is made of modules that can be independently replaced;
- » **intuitive use** - thanks to a large display with integrated touch buttons;
- » **sustainability** - machine made of steel can handle very big loads;
- » **energy savings** - we care about the environment, that is why we can boast an average energy consumption at the level of the 15W;
- » **independent functioning of the operating system** - thanks to the use of a Web browser, it doesn't matter which system you use on your computer, smartphone or tablet - the machine works with both Windows and Linux;
- » **comfort and efficiency** - in machines we use asymmetric doors that provide a view of the display along with access to the inside of the device

» KEY DIFFERENCES BETWEEN BASIC AND PRO VERSIONS

| | BASIC Version | PRO Version |
|---|---|--|
| Specification | <p>Most popular version of our system, delivered as a standardized package. Meets 95% of customers' expectations. Includes simplified product returns.</p>  | <p>A flexible version, which can be modified to meet the changing requirements of a given business. It includes intelligent tool shop and is compatible with a touchscreen.</p>  |
| Screen type | 7" screen with 15 buttons | 10" touchscreen |
| Returning items | Simple option to return collected tools and items. No labels | <p>Intelligent returns with labels to mark condition of product items</p> <p>Counters tracking usage, wear % and expiration dates of returned tools and items</p> <p>Returning product on behalf of another employee, or with superior's authorization</p> |
| Defining distribution priorities | × | For used tools |
| Automatic notifications | × | With a label assigned |
| Intelligent distribution | × | Intelligent distribution of used tools |

AUTOMATED MACHINE D810

» RECORD-BREAKING CAPACITY WITHIN A SMALL AREA

The D810 automated machine is a self-service machine capable of automatically distributing up to 810 different products. Its construction is based on a rotary drum and it thus enables clients to store a large volume of goods with in a small area. Intuitive management is provided through a display with 15 touch sensitive buttons in the basic version or a touch screen in the premium version. Through the patented compartment scanning system, loading of the compartments is both fast and easy. You can connect a bar code reader and an auxiliary machine without a user panel.

COMPARTMENT ADJUSTMENT FUNCTION

The impressive capacity of the machine is achieved through the compartment adjustment function, which provides up to 9 configuration options. The shelves can be of different sizes. Easily regulated compartments enable clients to adjust the capacity of the machine to meet a clients current needs whenever necessary.

3 LOADING OPTIONS

- 1** In case of the first, the loading takes place through an open door. An ideal solution for loading a large volume of the same type of products.
- 2** Second option consists of loading products piece by piece through small windows on the front of the machine.
- 3** The third option is based on the use of an innovative patented compartment scanning system that automatically detects already loaded compartments and thus considerably reduces the time necessary for loading the machine.



The machine is available in BASIC and PRO versions

AUTOMATED MACHINE D1080

» VERSATILE AUTOMATED DISTRIBUTION MACHINE

The D1080 automated machine is a self-service machine capable of automatically distributing up to 1080 different products. Its construction is based on a rotary drum and it thus enables clients to store a large volume of goods with in a small area. Intuitive management is provided through a display with 15 touch sensitive buttons. Through the patented compartment scanning system, loading of the compartments is both fast and easy. You can connect a bar code reader and an auxiliary machine without a user panel.

COMPARTMENT ADJUSTMENT FUNCTION

The impressive capacity of the machine is achieved through the compartment adjustment function, which provides up to 6 configuration options. The shelves can be of different sizes. Easily regulated compartments enable clients to adjust the capacity of the machine to meet a clients current needs whenever necessary.

3 LOADING OPTIONS

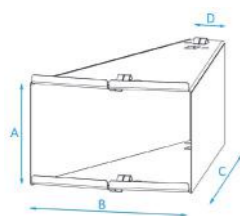
- 1** In case of the first, the loading takes place through an open door. An ideal solution for loading a large volume of the same type of products.
- 2** Second option consists of loading products piece by piece through small windows on the front of the machine.
- 3** The third option is based on the use of an innovative patented compartment scanning system that automatically detects already loaded compartments and thus considerably reduces the time necessary for loading the machine.



The machine is available in BASIC and PRO versions

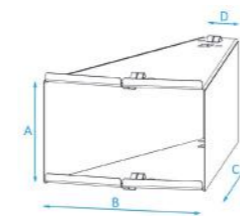
| TECHNICAL PARAMETERS | |
|---|------------------------------|
| Height [mm] | 1915 |
| Width [mm] | 805 |
| Depth [mm] | 790 |
| CAPACITY [CHAMBER/ONE SHELF TYPE] | |
| 50 x 80 mm | 810 |
| 75 x 80 mm | 540 |
| 50 x 170 mm | 405 |
| 150 x 80 mm or 75 x 170 mm or 50 x 270 mm | 270 |
| 75 x 270 mm | 180 |
| 150 x 170 mm | 135 |
| 150 x 270 mm | 90 |
| OTHER | |
| Operating temperature [°C] | 5 - 40 |
| Weight [kg] | 400 |
| Electricity consumption [Watt] | Standby: 15 / operation: 150 |
| Voltage [V] | 230 / 1 A |
| Permissible load in the basic drum configuration [kg] | 324 |

| DIMENSIONS IN MM | NUMBER OF CELLS | A | B | C | D |
|------------------|-----------------|-----|-----|-----|----|
| | 810 | 80 | 50 | 275 | 10 |
| | 540 | 80 | 75 | 275 | 15 |
| | 270 | 80 | 150 | 275 | 30 |
| | 405 | 170 | 50 | 275 | 10 |
| | 270 | 170 | 75 | 275 | 15 |
| | 135 | 170 | 150 | 275 | 30 |
| | 270 | 270 | 50 | 275 | 10 |
| | 180 | 270 | 75 | 275 | 15 |
| | 90 | 270 | 150 | 275 | 30 |



| TECHNICAL PARAMETERS | |
|---|-----------------------------|
| Height [mm] | 1915 |
| Width [mm] | 1110 |
| Depth [mm] | 1092 |
| CAPACITY [CHAMBER/ONE SHELF TYPE] | |
| 240 x 160 mm | 120 |
| 160 x 160 mm | 180 |
| 240 x 80 mm | 240 |
| 240 x 53 mm or 160 x 80 mm or 80 x 160 mm | 360 |
| 160 x 53 mm | 540 |
| 80 x 80 mm | 720 |
| 53 x 80 mm | 1080 |
| OTHER | |
| Operating temperature [°C] | 5 - 40 |
| Weight [kg] | 750 |
| Electricity consumption [Watt] | Standby: 12 / operation: 35 |
| Voltage [V] | 230 / 1 A |
| Permissible load [kg] | 185 |

| DIMENSIONS IN MM | NUMBER OF CELLS | A | B | C | D |
|------------------|-----------------|-----|-----|-----|----|
| | 1080 | 80 | 53 | 437 | 7 |
| | 720 | 80 | 80 | 437 | 11 |
| | 360 | 80 | 160 | 437 | 23 |
| | 540 | 160 | 53 | 437 | 7 |
| | 360 | 160 | 80 | 437 | 11 |
| | 180 | 160 | 160 | 437 | 23 |
| | 360 | 240 | 53 | 437 | 7 |
| | 240 | 240 | 80 | 437 | 11 |
| | 120 | 240 | 160 | 437 | 23 |



AUTOMATED MACHINE L40

» LARGE-SIZE VERSATILE DISTRIBUTION MACHINE

The L40 self-service machine capable automatically distributing up to 40 different products. Simple construction allows to load large-size items. Specially prepared openings in the back of the shelves allow for internal 230V * installations to supply power to the stored products. Very easy machine management is provided through the display with 15 touch buttons. You can connect a bar code reader and other machines available within the offer to the machine. L40S automated machine can successfully function as an ancillary unit of D540 and D1080 as well as F80 and D810 automated machines.

*L40ME model adapted to the internal power supply installation

COMPARTMENT ADJUSTMENT FUNCTION

Thanks to the shelves adjustment function – adjustment of height, in 4 sizes, the machine can be loaded up to 40 products at the same time.



The machine is available in BASIC and PRO versions

TECHNICAL PARAMETERS

| | |
|-------------|------|
| Height [mm] | 1915 |
| Width [mm] | 1020 |
| Depth [mm] | 600 |

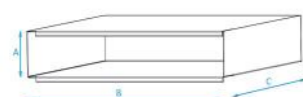
NUMBER OF ONE SHELF TYPE

| | |
|----------------------------|--------|
| 80 x 400 mm | 40 |
| 170 x 400 mm + 80 x 400 mm | 20 |
| 260 x 400 mm + 80 x 400 mm | 12 + 4 |
| 350 x 400 mm + 80 x 400 mm | 10 |

OTHER

| | |
|--------------------------------|-----------|
| Operating temperature [°C] | 5 - 40 |
| Weight [kg] | 200 |
| Electricity consumption [Watt] | 15 |
| Voltage [V] | 230 / 1 A |
| Permissible load [kg] | 25 |

DIMENSIONS IN MM



| DIMENSIONS IN MM | A | B | C |
|------------------|-----|-----|---|
| 80 | 400 | 585 | |
| 170 | 400 | 585 | |
| 260 | 400 | 585 | |
| 350 | 400 | 585 | |

AUTOMATED MACHINE F80

» SPIRAL AUTOMATED MACHINE FOR UNIQUE SOLUTIONS



The vending machine is available in versions with and without the user panel.

The F80 automated machine is a self-service machine capable of automatically distributing up to 80 different products. Based on ejectors and it thus enables clients to store a large volume of goods with in a small area. Intuitive management is provided by a screen with 15 touch buttons. Loading products is fast and easy. To the machine F80, you can connect a bar code reader and an auxiliary machine without a user panel.

DIFFERENT TYPES OF SPRINGS FOR PRODUCTS

The impressive capacity of the machine is achieved through the possibility of using various types of spring winding in up to five stroke configurations. Possibility to mount up to 8 shelves, with 10 springs each, which can be combined in pairs for larger products. The spring configuration is unlimited, one shelf may include single and double springs in different sizes at the same time. Easily regulated compartments enable clients to adjust the capacity of the machine to meet a clients current needs whenever necessary.

TECHNICAL PARAMETERS

| | |
|-------------|------|
| Height [mm] | 1915 |
| Width [mm] | 900 |
| Depth [mm] | 895 |

CAPACITY [ONE SPIRNG TYPE]

| | |
|----|------|
| 7 | 560 |
| 8 | 640 |
| 10 | 800 |
| 17 | 1360 |
| 23 | 1840 |

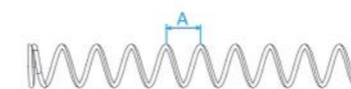
OTHER

| | |
|--------------------------------|-------------|
| Operating temperature [°C] | 5 - 40 |
| Weight [kg] | 350 |
| Electricity consumption [Watt] | Standby: 15 |
| Voltage [V] | 230 / 1 A |
| Permissible load [kg] | 25 |

TYPES OF SPRINGS

CAPACITY

| | |
|-------------|----|
| left, right | 7 |
| left, right | 8 |
| left, right | 10 |
| left, right | 17 |
| left, right | 23 |



ADDITIONAL ASSORTMENT



Dedicated lock with a single, universal key

Pin lock from the reputable company Baton ensures opening of numerous vending machines with one key, thus protecting from opening with a universal key. The lock was made of high-grade steel.



Bar code reader

A bar code reader allows to identify even the most damaged codes thanks to a software that improves reading. This high-quality, multiline (18 scanning lines) laser reader is adjusted to operate in a vertical position. Designed for housing. It is ideal for identifying products that are loaded and those that are distributed from the vending machines.



Protection tubes

Protection tubes form a protective barrier securing the sides of the vending machines against forklifts and other vehicles operating in the warehouse halls. Durable steel construction provides effective protection. The pipes are mounted to the sides of the machines in technological holes previously prepared with screws. The structure is powder coated in bright colors or otherwise - according to individual needs.



Boxes

Boxes for small products for the D1080 and D810 machines are available in three widths. The ideal solution for small products such as screws, nuts, etc. Boxes prevent them from falling out while the drum is rotating and facilitate their removal from the machine.



Rubber pad protecting products against scratches for D1080 and D810 machines

The pad is flexible, which protects the product against damage during collection, in particular throughout return and loading the tool. The soft lining allows products to be placed in the machine without fear of scratches, and thanks to the cutouts in the sponge, the pad adheres perfectly to the surface.



Internal installation 230V

Internal installation available for the L40ME machine. Thanks to the special construction of the back of the machine, we can mount cans with 3 modules depending on your needs.



Drum scanning system

The drum scanning system can shorten the loading time by up to 50%. Available for D540 and D810 machines. It is possible to install the system in a currently running vending machine.



Wi-Fi Modem

Where there is no possibility of easy installation of wired LAN connection, the machine can be connected to the local network using Wi-Fi interface.



Warranty Extension

Complex warranty extension offer allows you to extend the protection for up to 6 years (on parts only). A variant of the comprehensive protection (all inclusive) includes the repair of vending machines by authorized service technicians with a guaranteed response time to 24 hours.

PRODUCT COLLECTION



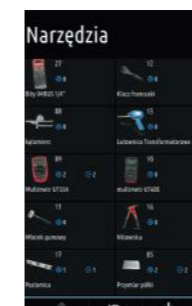
1

Employee has quick access to products in the vending machine through the proximity card. The employee places the card in a specially designated spot, in which the reader is installed.



2

After applying the card, the product catalog is displayed. Products can be properly categorized so as to provide the employee with a possibility of the most intuitive and quick product search.



3

After entering into the appropriate category, the products are displayed. They include small miniatures so as to make it easier for the employee to recognize them. Configuration allows to view only those products for which the employee has access



4

The employee selects the cost center on which he wants to collect the product. This is an additional feature that allows to settle collection per projects, cost centers or company departments. In case of a large number of projects, the employee has the ability to search for a project by name.



5

Upon selecting the appropriate product and approving the cost center, the machine indicates the location where the product is placed.



**ASD Systems Polska Spółka z ograniczoną
odpowiedzialnością Spółka komandytowa**

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