



MACHINES CATALOGUE

Contents

About PROFITEX	2
Design Department	3
Waterjet Cutting Machines	4
Laser Cutting Machines	4
Computer Numerical Control Machines	5
Welding Section	6
Bending section	7
Polyurethane Sealing Machine	7
Equipment Assembly Area	8
Service Area	9
1. Packing in Cups, Containers, Buckets and Cone	10
Semi-Automated Machine for Packing into Plastic Cups	11
Semi-Automated Machine for Vacuum Sealing of Plastic Containers with Film	11
Semi-Automated Machine for Sealing Plastic Containers with a Metal Lid	12
Line for Packing Cheese Bars into a Plastic Containers	13
One-Row Automated Machine For Packing into Plastic Cups	14
Two-Row Automated Machine for Packing into Plastic Cups	15
Four-Row Automated Machine for Packing into Plastic Cups	16
Four-Row Line Automated Machine for Packing into Plastic Cups	17
Six-Row Machine for Filling in Plastic Cups	18
Six-Row Line for Filling in Plastic Containers	19
Eight-Row Line Machine for Filling in Plastic Containers	20
Line for Filling Sauerkraut in Plastic Containers	21
Automated Machine for Packing Curds into Plastic Cups	22
Automated Machine for Packing Cottage Cheese into Plastic Cups	23
Vacuum Line for Filling Curd into Plastic Containers	24
Automatic Machine for Filling Bulk Products in Plastic Cups (single row)	25
Automatic Machine for Filling Bulk Products in Plastic Cups (two-row)	26
Packing Complex Machine into Plastic Cups	27
Automated Machine for Packing into Buckets (up to 1 liter)	28
Automatic Filling Machine for Buckets (up to 3 Liters)	29
Bucket Packaging Station	30
Automatic Machine for Filling Ice Cream in Plastic Containers, Waffle Cones	31
Automated Machine for Lamister Packaging	32
Complex for Packing in Lamister Containers	33
2. Filling in Bottles, Cans, Canisters	34
Bottle Packaging Station	35
Filling Line for Plastic Containers	36
Automated Machine for Packing into a Bottle, Can, or a Pot	37
Automated Machine for Packing Carbonated Airan	38
Automated Machine for Packing into a Glass Bottle, Pot	39
Triblock Packaging Station	40
Automated Machine for Twist-Off Vacuum Capping	41
Twelve-Dose Line for Filling Chemically Active Liquids	42
Filling Line for Glass Bottles and Vacuum Twist-Off Caps	43
Packing Complex Machine into PET Pots	44
Bottle Filling Complex	45
Packaging Complex for Filling into a Tin Bottle	46
Filling Complex for Filling into Plastic Canisters	47



3. Packing in Bags and Roll Materials	48
Aseptic Automated Machine for Packing into Polyethylene Bags	49
Automated Machine for Packing into Polyethylene Bags	50
Sachet Type Polyethylene Bag Filling Machine	51
Automated Machine for Packing into Polyethylene Bags	52
Plastic Bag Filling Machine (two-module)	53
Automated Machine for Packing Dry-Goods into Bags	54
Automated Machine for Packing Cottage Cheese into Bags	55
Model Range of Filling Lines for Carton Bags Type PURE PACK	56
PURE-PACK Bag Packing Complex Machine	58
Automatic Filling Machine for Zip-Lock Bags	59
Horizontal Packing Machine Flow Pack	60
Automated Machine for Packing Products into Briquette	61
4. Packaging Products in Tubes and Bottles	62
Automatic Tube Filling Machine	63
Cartouche Filling Machine	64
Automatic Filling Machine for Cosmetic Bottles	65
5. Shipping Packaging	66
Cartoning Machine for Packing Bags into Boxes	67
Group Packaging of Containers in Shrink Film	68
Tray-Box Former, the Bundler and the Palletizer for Tray-Boxes	70
Two-Strand Tray-Box Former	71
6. Optional Equipment	72
Laser Marker for Putting a Date	72
Automated Labelling Machine	73
Automatic Machine for Making Cheese (curd) Balls	74
Blending Station	74
Tanks, Conveyor Systems, Storage Tables	75
CIP Station for the Local Washing of the Packaging Machines	76
Stainless Steel Enclosures	77
7. Disinfectants	78
Air Cleaning Machine	78
Dispenser D100	78
Disinfecting Solution BIOPAG-D	79
Disinfecting Solution Hygiene Med	79
BioPischeMash	80
Food Packaging	81



About PROFITEX

Do you want your product to be chosen by customers among dozens of others on store shelves?

If you say yes, then it is the PROFITEKS machine-building plant that will help you solve this problem!

Machine-building plant «PROFITEKS» is one of the leading manufacturers of filling and marking equipment for food and other industries. The history of the plant's creation can serve as a classic example of the origin and successful development of an enterprise thanks to the right direction.

The secret of our success is that the equipment is developed individually for the product and packaging of the customer. This allows you not only to pack quality products, but also to use your original packaging. The plant provides a full range of services: from the creation of a project to the supply of equipment directly to the customer. A full service, warranty and post-warranty service is also carried out.

During the period of its development, the PROFITEKS plant was able not only to expand the range of filling equipment, but also to develop and implement labeling machines, automatic filling lines, devices for sealing foil and polyethylene, conveyor systems and storage tables, machines for group packaging. Our special pride is the development of a laser marker designed to quickly and efficiently apply information to various types of packaging.

Thanks to constant participation in international and all-Russian exhibitions, as well as seminars and conferences, we are always aware of the latest developments and trends in the consumer market. During its existence, the PROFITEKS plant has taken part in more than 150 seminars, exhibitions and international forums, awarded with diplomas, medals and GRAND PRIX. The company was awarded a bronze medal and a Diploma of the International Institute of the European Community for the Promotion of Commercial Enterprises for the development and introduction into production of a Laser marker based on the results of the competition «V Moscow International Salon of Innovations and Investments». In the Techsalon 2006 «Technology of the Third Millennium» PROFITEKS received the GRAND PRIX for high-performance product labeling in industrial production. The filling machine was awarded the "One Hundred Best Goods of Russia" label. And for the original and accurate packaging of cottage cheese, the ADNK 39M machine won the Gold Medal.

More than 1,500 enterprises in Russia, as well as near and far abroad work on the equipment produced by the plant. Our clients are factories in Belarus, Kazakhstan,

Uzbekistan, Azerbaijan, Moldova, Ukraine, Latvia, Greece, Hungary, Canada, etc.

We are interested in your success!

The director of the plant «PROFITEKS» - Yuri Knyazev

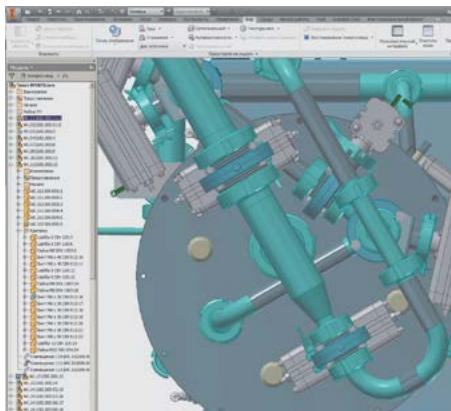


Design Department

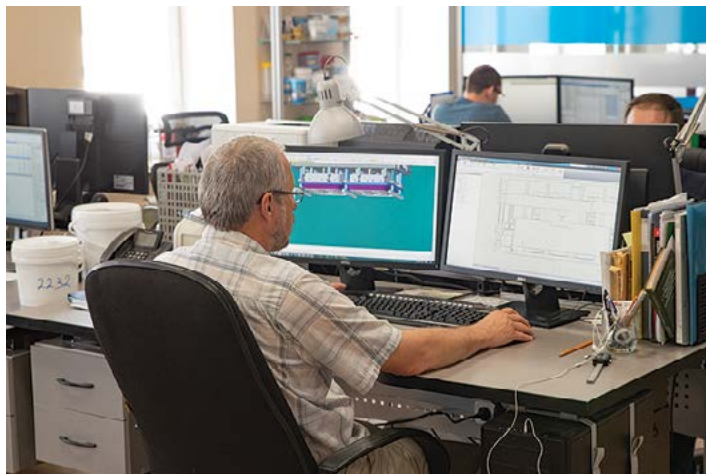
The staff of highly qualified designers allows the plant to solve the problems of our customers and partners. Each non-standard order is individually designed on computers with modern 3D modeling software.



Design Department



Extensive work experience allows specialists to implement their own patented solutions in development using the latest technologies.



Individual engineering according to the customer's specifications

Waterjet Cutting Machines

Due to the variety of metalworking machines, the plant produces high quality parts and structures in any configuration.

A three-axis machine with numerical software allows you to cut a variety of sheet material.

A five-axis CNC machine allows you to get a workpiece at the exit that does not require additional metalworking.



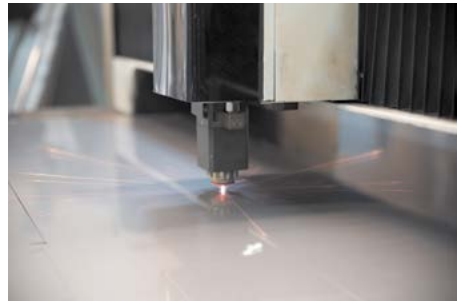
Waterjet cutting of sheet material

Laser Cutting Machines

- Laser cutting machine with power 1 kW allows to cut sheets up to 3 mm thick, providing precise execution for subsequent bending and welding work. This unit is equipped with a nitrogen purge system to obtain a clean cut line.

- A laser machine with a power of 6 kW allows you to cut a sheet of metal with a thickness of 1 mm to 25 mm.

- Laser machine designed for high-precision cutting of round and square pipes, as well as required holes in pipes.



Computer Numerical Control Machines

CNC machining centers for high precision parts manufacturing.

- Lathes with CNC - machine-type devices with a numerical control system, designed for high-quality turning of workpieces with various shapes using cutters.

- CNC milling units - machine-type devices with a numerical control system, designed for finishing workpieces using milling cutters. Installations can carry out the following manipulations: drilling, excavation of grooves and channels, production of volumetric parts. The plant's arsenal includes installations for processing small and medium-sized parts, as well as installations for processing large-sized parts.



Five-axis machining center



CNC milling machine operation



Operator work on a numerically controlled center

Welding Section

The welding section of the plant is equipped with welding tables of the German company "Ziegmund".

The tables have a special coating, the mobility of the structure allows you to arbitrarily fix parts for welding with high accuracy and easily reconfigure the tooling system.

Thanks to its modularity, welding tables can be used to carry out a full cycle of work - from layout to welding and assembly.



Argon welding process



Welding table "Ziegmund"

Welding works are carried out by argon-arc welding with a water cooling system, which allows you not to interrupt the production process. Due to the supply of inert gas to the welding zone, a thin and strong seam without voids is obtained, due to the displacement of oxygen and other gas mixtures.



Control cabinet manufacturing process

Bending section

The arsenal of the plant uses two bending presses with a force of 80 tons.

The machines are equipped with a numerical control system.

The advantage of these models is their versatility, which improves productivity.



Operator work on a CNC press brake

Polyurethane Sealing Machine

The plant uses a numerical control machine to apply the polyurethane gasket.



Sealing the control cabinet door

The sealing equipment is an efficient polyurethane foam dispensing system designed to apply a sealing barrier sealing tape, which, during operation, prevents the ingress of dust and moisture, prevents corrosion, and reduces vibration.

In the manufacture of electrical control cabinets, at the request of the customer, polyurethane is applied to the doors or other parts with various configurations of the product for sealing.



CNC machine for applying polyurethane gasket

Equipment Assembly Area

Released parts go to the Assembly area. The equipment is congregated, the final fit of the assemblies, the installation of electrical and pneumatic components is carried out.



Assembly of filling machine units



Equipment assembly area

Service Area

In the service area is carried out the first run of the assembled equipment, configuration and testing using the customer's packaging.

After running-in, the equipment is sent to the customer. The Service is launched at the client's enterprise and carries out its further warranty service.



Sending finished equipment



Testing the operation of the filling machine on the customer's container

1. Packing in Cups, Containers, Buckets and Cone

The machines are designed for filling liquid and pasty products into plastic or cardboard cups and containers, buckets, cones and lamister containers of various configurations and volumes.

Depending on the specificity of the container closure, the filling machines can be equipped with the appropriate units:

- sealing with a plate,
- sealing with foil,
- capping with a lid,
- capping with a topper.



Filling in lamister containers



Filling in plastic containers



Filling in containers with a topper lid



Filling in cones



Filling in cardboard cups



Filling in plastic cups



Filling in buckets

Semi-Automated Machine for Packing into Plastic Cups

The semi-automated machine is used for packing liquid and paste-like products into plastic cups of different forms (round, rectangular, triangular, etc, non-standard) with die-cut sealing

The semi-automated machine includes:

Air preparation unit
Automatic measurer
Die-cut feeding station
Sealing station
Control unit
Feeding box (30 liters).



Semi-Automated Machine for Vacuum Sealing of Plastic Containers with Film

Technical Data:

Productivity	up to 500 pcs / hour
Time of soldering the film with cutting	1.5-2 sec
Overall dimensions	600x600x1500 mm
Weight	200 kg
Voltage	220 V, 50 Hz
Power consumption	3 kW
Pressure	0,6 MPa
Compressed air consumption	300l / min

The semiautomatic device is designed for vacuum sealing of plastic containers. For sealing, laminated polymer films (with barrier properties) are used, the film is cut from a roll. The film can be either unprinted or printed. The gas injection option allows the container to be filled with an inert gas prior to sealing.



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Semi-Automated Machine for Sealing Plastic Containers with a Metal Lid

Designed for packing natural and analog caviar into plastic containers with a tin lid in a vacuum environment.

The semi-automated device is manual, therefore it has no established performance

Advantages:

Reliability
Easy to maintain
High quality cover seaming
Vacuum chamber

Technical Data:

Productivity	manual
Overall dimensions	1200x1400x650 mm
Weight	177 kg
Voltage	220V, 50 Hz
Power consumption	no more than 1.5 kW
Pressure	0,6 MPa
Compressed air consumption	100 l / min



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Line for Packing Cheese Bars into a Plastic Containers

The vacuum sealing line is designed for automatic thermo-sealing of plastic food containers.

For sealing, laminated polymer films (with barrier properties) are used, the film is cut from a roll. The film can be either unprinted or printed.

The gas injection option allows the container to be filled with an inert gas after evacuation. This allows you to increase the shelf life of the packaged product, the period during which the product does not deteriorate and does not lose its taste and usefulness increases. This requires special containers with barrier properties in order to maintain the environment created in it for a long time.

In a modified gas environment, cottage cheese, cheese, meat and fish dishes with side dishes, semi-finished products, salads, snacks, pastries, various bakery products, etc. are packed and stored.

Ease of use, quality of packaging make this machine indispensable for use in large and medium-sized food industries.

The equipment is made individually for the customer's product and container.

In this embodiment, the plastic packaging is a syrnitsa (lid with a backing) - the container moves initially upside down, the container is a lid for the consumer, the lid is sealed with a film, then the backing (bottom of the package) is sealed.

Technical Data:

Productivity	up to 1200 doses / hour
Power consumption	5 kW
Voltage	220 V, 50 Hz
Pressure	0,6 MPa
Compressed air consumption	800 l / min
Weight	460 kg
Number of rows	4 pcs
Vacuum pump power	1,5 kW



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One-Row Automated Machine For Packing into Plastic Cups

The machine is used for packing liquid and paste-like products into plastic cups of different size with die-cut sealing made of Walkillid or foil, and capping with a plastic cap.

The product line includes: milk, cream, kefir, fermented backed milk (ryazhenka), sour cream, mayonnaise, yogurts with fruits, processed cheese, dairy butter, curd cheese, jam, two-layer multi-component products

Advantages:

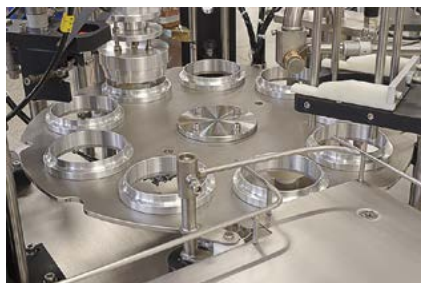
Reliability
Ease of operation
High quality of die-cut sealing (a spiral pipe heating element)
Vacuum-balancer (against buckling)
A quick switch to a different type, size, and form

Extra options:

An additional applicator for packing two products into one cup
Interchangeable set
A feeding box (up to 120 liters) with a screw conveyor and heating
The capping station

Technical Data:

Productivity with product:	
Pneumatic drive	up to 1500 doses/p/h
Electric drive	up to 1800 doses/p/h
Servounit	up to 2000 doses/p/h
Overall dimensions	900*850*1800 mm
Weight	230 kg
Voltage	220V, 50 HZ
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	less than 250-300 l/min



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Two-Row Automated Machine for Packing into Plastic Cups

The machine is used for packing liquid and paste-like products into plastic cups of different forms, with die-cut sealing made of Walkiild or foil, and capping with a plastic cap. The two-row automated machine is known for its small size and high productivity with a single maintaining operator.



Technical Data:

Productivity (with product):	
• Electromechanical	- up to 3600 doses/p/h
• Servounit	- up to 4000 doses/p/h
Overall dimensions (without conveyors)	1200x1200x2800 mm
Weight	800 kg
Voltage	220V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	700-800 l/min

Advantages:

- Small size
- High productivity
- A single maintaining operator
- A high quality of die-cut sealing (a spiral pipe heating element)
- Vacuum balancer (against buckling)

Extra options:

- Connection to the CIP cleaner
- Automated cup feeding
- The CLEAN cleaning system
- The automated measurer control
- The cup rollover station (for processed cheese)
- The accumulation table 1200 mm (rotary)



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Four-Row Automated Machine for Packing into Plastic Cups

The machine is used for packing liquid and paste-like products into plastic cups of different forms, with die-cut sealing made of Walkild or foil, and capping with a plastic cap. The four-row automated machine is known for its small size and high productivity with a single maintaining operator

Advantages:

- Small size
- High productivity
- A high quality of die-cut sealing (a spiral pipe heating element)
- Vacuum balancer (against buckling)

Technical Data:

Productivity (with product)	up to 800 doses/p/h
Rotary drive	servounit
Overall dimensions (without a conveyor)	1500x1500x2800 mm
Weight	1200 kg
Voltage	380 V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	700-800 l/min

Extra options:

- Connection to the CIP cleaner
- Automated cup feeding
- Automated cap feeding
- The CLEAN cleaning system
- The automated measurer control
- The cup rollover station (for processed cheese)
- The accumulation table 1200 mm (rotary)



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Four-Row Line Automated Machine for Packing into Plastic Cups

The machine is designed for filling liquid and pasty products into plastic cups sealed with a plate made of valkildie, foil.

Advantages:

High performance
Easy to maintain

Technical Data:

Kinematic productivity	up to 6000 packs / hour
Voltage	380 V, 50 Hz
Power consumption	10 kW
Air pressure	0,6 MPa
Compressed air consumption	1500 l / min
Weight	3800 kg
Overall dimensions	4500x2500x2300 mm



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Six-Row Machine for Filling in Plastic Cups

The machine is designed for filling liquid and pasty products into plastic cups from 100 to 500 ml. with sealing with a vakkilid plate, foil or foil and sealing with a plastic lid

Advantages:

- High performance
- High quality sealing plate
- Vacuum compensator

Technical Data:

Productivity is	up to 9000 doses per hour
Voltage	380 V / 50 Hz
Power consumption	5,5 kW
Compressed air consumption	900 l / min
Pressure	0,6 MPa
Weight	5000 kg
Number of rows	6

Extra options:

- CIP connection
- Automatic feeding of glasses
- Automatic lid feeding
- Ultra Clean Cleaning System



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Six-Row Line for Filling in Plastic Containers

Automatic machine ADNL 39 D-6L six-row is designed for packaging processed cheese, butter, spreads, other pasty products, packed in plastic containers with a sealing plate and a lid cork

Technical Data:

Productivity	up to 8000 doses / hour
Voltage	380 V / 50 Hz
Power consumption	no more than 6-8 kW
Compressed air consumption	1500-2000 l / min
Pressure	0,6 MPa
Weight	not more than 1000 kg
Number of rows	6
Volumetric dosing	method
Dose error	+/- 2%

Extra options:

Ultrasonic Cap Sealing Applicator
Thermodater
CIP connection
Cleaning system CLEAN
Local washing station



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Eight-Row Line Machine for Filling in Plastic Containers

The machine is designed for filling liquid and pasty products into plastic cups with a foil and a lid

Advantages:

High performance
Easy to maintain

Technical Data:

Productivity with product	up to 6000 doses / h
Voltage	380 V, 50 Hz
Power consumption	no more than 6 kW
Pressure	0,6 MPa
Compressed air consumption	1500 l / min
Overall dimensions	6000x1200x2100 mm
Weight	2500 kg



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Line for Filling Sauerkraut in Plastic Containers

Line for packing sauerkraut, salads like "Korean" carrots, seaweed in a plastic container with a sealing plate or film and a lid

Advantages:

- Minimum possible mechanical impact on the product
- Adjusting the dispenser for different hardness of salads
- Easy to maintain

Technical Data:

Productivity with product	up to 1300 doses / h
Voltage	220 V, 50 Hz
Power consumption	no more than 1,5 kW
Pressure	0,6 MPa
Compressed air consumption	400 l / min



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Automated Machine for Packing Curds into Plastic Cups

The automated machine is used for packing curds of different fat percentage with pieces of fruits, cheese paste, curd cheese, curd snacks into plastic cups and containers of different forms, with die-cut sealing made of Walkild or foil, and capping with a plastic cap. The applicator for packing curds includes a mixer with paddles, a screw conveyor, and a storage bin

Advantages:

- High measuring quality
- High productivity
- High quality of die-cut sealing (a spiral pipe heating element)
- Vacuum-balancer (against buckling)
- A quick switch to a different type, size, and form

Technical Data:

Productivity (with product):	
Pneumatic drive	- up to 1500 doses/p/h
Electromechanical drive	- up to 1800 doses/p/h
Servounit	- up to 2000 doses/p/h
Overall dimensions	1040x1000x1800 mm
Weight	380 kg
Voltage	220V, 50 Hz
Power consumption less than	1,2 kW
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min

Extra options:

- An additional applicator for packing two products into one cup
- Interchangeable set
- A pourer for the storage bin (for pouring up to 150 kg of curds from the truck)
- The capping station



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Automated Machine for Packing Cottage Cheese into Plastic Cups

The automated machine is used for packing cottage cheese into plastic cups and containers of different forms, with die-cut sealing made of Walkildid or foil, and capping with a plastic cap. When packing this product, it is important to keep individual curds, precise measuring and the productivity of the packaging machine

Advantages:

- More uniform curd for less shattering
- High measuring quality
- High productivity
- High quality of die-cut sealing (a spiral pipe heating element)
- Vacuum-balancer (against buckling)
- A quick switch to a different type, size, and form

Technical Data:

Productivity (with product)	up to 1300 doses/p/h
Rotary drive	pneumatic
Overall dimensions (without a conveyor)	1040x1000x1800 mm
Weight	380 kg
Voltage	220 V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa

Extra options:

- An additional applicator for packing two products into one cup
- Interchangeable set
- The capping station



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Vacuum Line for Filling Curd into Plastic Containers

The machine is designed for packaging classic cottage cheese in plastic containers with vacuum film sealing. The machine can be equipped with an applicator for applying a self-adhesive label

Advantages:

High dosing accuracy
High quality film sealing

Technical Data:

Productivity	up to 900 doses / hour
Overall dimensions	4026x1877x4237 mm
Weight	2423 kg
Voltage	380 V, 50 Hz
Power consumption	no more than 9,5 kW
Pressure	0,6 MPa
Compressed air consumption	1500 l / min



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Automatic Machine for Filling Bulk Products in Plastic Cups (single row)

Designed for packing various multicomponent bulk instant products (fast food, mashed potatoes, various cereals with additives), food products (peanuts, seeds) and non-food products (barium sulfate, various powders) into plastic cups of various shapes with sealing platinum and plastic cork cover. On request, up to 3 dispensers are installed on the machine for each type of product. The machine is made individually for each order

Advantages:

- Reliability
- Easy to maintain
- High quality sealing plate (Tubular-Spiral Teng)
- Quick changeover to another standard size or another glass shape

Technical Data:

Productivity	up to 2000 doses / hour
Overall dimensions	900x850x1800 mm
Weight	230 kg
Voltage	220V, 50 Hz
Power consumption	no more than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	up to 600 l / min

Extra options:

- Replacement kit
- Capping unit with a plastic lid



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Automatic Machine for Filling Bulk Products in Plastic Cups (two-row)

Designed for packing bulk products into plastic cups with sealing plate and sealing with a plastic lid

Advantages:

- Reliability
- Easy to maintain
- High quality sealing

Technical Data:

Kinematic productivity	up to 3000 doses / hour
Overall dimensions	3000x3000x2200 mm
Weight	1000 kg
Voltage	220 V, 50 Hz
Power consumption	3 kW
Pressure	0,6 MPa
Compressed air consumption	800 l / min



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Packing Complex Machine into Plastic Cups

Designed for packing liquid and pasty products into plastic cups of various shapes, with sealing with a viallode plate or foil and sealing with a plastic lid with group packing in cardboard tray-boxes

Technical Data:

Productivity (with product)	up to 8000 doses / hour
Carousel drive	servo drive
Voltage	380 V, 50 Hz
Pressure	0,6 MPa

Operation description:

The former folds a tray into a box. The box further moves along the conveyor. The bundler forms the packed product on the conveyor, and the palletizer puts it into the box. Then the conveyor moves the packed tray-box to the stacker



The complex includes:

- Automatic filling machine for plastic cups
- Automatic tray forming machine
- Grouper and stacker of containers in tray-boxes
- Conveyor system
- Tray box accumulator

ADNK 39D-4
ADNK 39 F
ADNK 39 GUT
ADNK 19 TR
ADNK 39 N

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Automated Machine for Packing into Buckets (up to 1 liter)

The automated machine is used for packing liquid and paste-like products into plastic buckets of different forms (500-1000 ml), and with capping with a plastic cap. The machine can be equipped with a conveyor and a labeler for sticking self-adhesive labels on caps or buckets.

The product line includes: sour cream, mayonnaise, melted butter, and other liquid and paste-like products

Advantages:

- Reliability
- Ease of operation
- Air expulsion mechanism (against buckling)
- High productivity

Technical Data:

Productivity (with product):	
Electromechanical drive	- up to 1800 doses/p/h
Servomotor	- up to 2000 doses/p/h
Overall dimensions	900x850x1800 mm
Weight	250 kg
Voltage	220V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min



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Automatic Filling Machine for Buckets (up to 3 Liters)

Designed for filling liquid and pasty products in plastic buckets of various shapes, with a volume of 1000 - 3000 ml, with a plastic lid. The machine can be equipped with a conveyor and a labeler for applying a self-adhesive label to a lid or bucket

Assortment of packaged products: sour cream, mayonnaise, ghee and other liquid, pasty products

Advantages:

- Reliability
- Easy to maintain
- The mechanism for displacing air from the bucket (to prevent the lid from blowing up)
- High performance

Technical Data:

Productivity	up to 1500 doses / hour
Overall dimensions	4000x1500x1800 mm
Weight	400 kg
Voltage	220V, 50 Hz
Power consumption	no more than 2 kW
Pressure	0,6 MPa
Compressed air consumption	600 l / min



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Bucket Packaging Station

The station is used for weight measuring of liquid and paste-like products in handled buckets of 0,5 to 30 liters, with self-feeding and capping. After the product is packed, the production can be completed with automatic sealing of buckets with rolled tape. The sealing is followed by die-cutting for tear strip. Labelers mark packed products with self-adhesive labels by stamping them on the bucket or its cap. Labelers can be equipped with a thermodater for putting the date, or with a laser marker. The station can be also equipped with an accumulation table for feeding empty buckets and accumulating ready products. Stations are made in accordance with customer requirements

Station Structure:

1. Weighting controller
2. Tape sealing station
3. Cap feeding station
4. Capping station
5. The labeler for stamping self-adhesive stickers on the bucket or its cap
6. The Thermodater for putting the date on the label or a laser marker
7. Universal conveyor 6 m.
8. Accumulation table

Technical Data:

Capacity of the station is up to 1 000 buckets per hour⁰⁰



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Automatic Machine for Filling Ice Cream in Plastic Containers, Waffle Cones

Designed for packing desserts into waffle cones. Dessert is a multicomponent product, therefore the machine is made according to an individual order, in accordance with the product and container samples. This machine pre-fills the walls of the cone with chocolate, then packs curd with fruit filling into it and pours chocolate icing on top

Advantages:

Reliability
Easy to maintain

Technical Data:

Productivity	up to 2000 doses / hour
Overall dimensions	950x950x1800 mm
Weight	330 kg
Voltage	220V, 50 Hz
Power consumption	no more than 3 kW
Pressure	0,6 MPa
Compressed air consumption	250-300 l / min



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Automated Machine for Lamister Packaging

Designed for packing meat, canned fish and pastes, confectionery, baby food and condensed milk in lamister glasses. Lamister is a combined packaging material based on aluminum foil with a polypropylene coating, used for the production of semi-rigid cans

Advantages:

- Reliability
- Easy to maintain
- High quality sealing plate (tubular spiral heating element)
- Quick changeover to another standard size or another glass shape

Technical Data:

Productivity	up to 2000 doses / hour
Overall dimensions	900x850x1800 mm
Weight	230 kg
Voltage	220V, 50 Hz
Power consumption	no more than 2 kW
Pressure	0,6 MPa
Compressed air consumption	450-500 l / min

Extra options:

- Additional dispenser for filling two products into one glass
- Replacement kit
- Feeding hopper with auger and heating up to 120 l



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Complex for Packing in Lamister Containers

Designed for packing meat, canned fish and pastes, confectionery, baby food and condensed milk in lamister glasses. Lamister is a combined packaging material based on aluminum foil with a polypropylene coating, used for the production of semi-rigid cans

Advantages:

- Reliability
- Easy to maintain
- High quality sealing plate (tubular spiral heating element)
- Quick changeover to another standard size or another glass shape

Technical Data:

Productivity	up to 2400 doses / hour
Overall dimensions	5000x1900x2300 mm
Weight	1030 kg
Voltage	220V, 50 Hz
Power consumption	4,75 kW
Pressure	0.6 MPa
Compressed air consumption	800 l / min



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2. Filling in Bottles, Cans, Canisters

The machines are designed for filling liquid and pasty products in PET, glass or metal bottles, cans and cans of various configurations and volumes.

Depending on the specificity of the container closure, the filling machines can be equipped with the appropriate units:

- twist with a plastic lid,
- twist-off lid,
- twist crimp screw cap,
- capper crown cap.



Filling in PET bottles of the original shape



Filling in glass jars and bottles



Filling in food PET containers



Filling in canisters



Filling in tin bottles

Bottle Packaging Station

The bottle packaging station is used for automated packaging of bottles with milk, kefir, yogurt, calm liquids into PET packages of 0,33 to 5 liters, and automated capping with plastic closing screws. If required, the station can be equipped with an automated applicator and a laser marker. It's also possible to introduce customer specifications and design

Technical Data:

Capacity	up to 1,5 liters	Up to 3000 bottles/p/h
	up to 5 liters	1500 bottles/h
Measuring methods		- by volume
		- by leve
		- by time
Voltage		220 V 50 Hz
Power consumption		less than 2,5 kW
Pressure		0,6 MPa
Compressed air consumption		1000 l/min



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Filling Line for Plastic Containers

The filling line is designed for automatic filling of liquid and pasty products into plastic containers (bottles, cans, cans) from 0.3 to 1.5 liters, with automatic feeding and sealing of the lid. At the request of the customer, the line can be completed with an automatic applicator and a laser marker. Individual development of lines for the product and packaging of the customer is possible

Advantages:

- Reliability
- Easy to maintain
- High performance in a compact size
- Remote equipment control
- Stainless steel version



Technical Data:

Carousel drive servo drive	
Productivity:	up to 3000 doses / hour
Volumetric dosing	method
Weight	460 kg
Voltage	220V, 50 Hz
Power consumption	1,2 kW
Pressure	0,6 MPa
Compressed air consumption	up to 800 l / min
Dose adjustment with setting	100 -500 ml
Dose error	+/- 2%

Extra options:

- Automatic module for grouping bottles
- Automatic film wrapping (without backing)
- Heat tunnel
- Thermal sensor (for stamping the date on the label)
- CLEAN system
- Automatic double-row bottle rinser before filling
- Labeller (for applying PP labels on a bottle)
- Compressed air compressor
- PET bottle blowing machine
- Labeller (for applying a self-adhesive label on the bottle)
- Laser marker



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Automated Machine for Packing into a Bottle, Can, or a Pot

Designed for automatic filling of milk, kefir, yogurt, calm liquids in PET containers with a volume of 0.33 to 1.5 liters, automatic sealing of them with plastic screw plugs. At the request of the customer, the line can be completed with an automatic applicator and a laser marker. Individual development of lines for the product and packaging of the customer is possible.

Technical Data:

Productivity with product	up to 3000 packs/h
Dosing methods	volumetric
Voltage	220 V, 50 Hz.
Power consumption	less than 2,5 kW
Pressure	0,6 MPa
Compressed air consumption	600-800 l / min
Weight	460 kg
Overall dimensions	900x850x1900 mm



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Automated Machine for Packing Carbonated Airan

The station is used for packing carbonated airan into PET cans from 0,25 to 1 l, with rolled tape sealing, and screw top capping.

If required, the station can be equipped with an automated applicator and a laser marker. If required, the station can be equipped with an automated applicator and a laser marker.

The machine is made according to customer requirements

Advantages:

Small size
High performance
High-quality packaged products
Serviceability

Technical Data:

Productivity with product up to	1200 packs/h
Dose adjustment	250-1000 ml
Weight	460 kg
Voltage	220 V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	500 l / min

Extra options:

Container handling (injection of hydrogen peroxide before rinsing)
Automatic single-row bottle rinser before filling
Thermal tunnel for UV treatment of bottles before filling
Labeller (for applying PP label to bottle)
Labeller (for applying a self-adhesive label on the bottle)
Winding mechanism (for crimping the label on the bottle)
Thermal sensor (for stamping the date on the label)
CLEAN system
Photocatalytic filter
Fending standard
Automatic module for grouping bottles
Automatic film wrapping (without backing)
Heat shrink machine



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Automated Machine for Packing into a Glass Bottle, Pot

The station is used for packing liquid and paste-like products with pieces of vegetables into glass bottles from 100 up to 1500 ml, with rolled tape sealing, and screw top capping twist-off.

The machine can also be made for packing in ceramic pots or other non-standard packaging

Advantages:

- Reliability
- Ease of operation
- High quality of die-cut sealing (a spiral pipe heating element)
- A quick switch to a different type, size, and form

Technical Data:

Productivity	up to 3000 doses/p/h
Rotary driver	servounit
Weight	460 kg
Overall dimensions	900x850x1900 mm
Power consumption	less than 1,2 kW
Voltage	220V, 50 HZ
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min

Extra options:

- Bactericidal treatment tunnel
- Barrier
- Replacement kit
- Conveyor



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Triblock Packaging Station

Triblock automatic machine combines the following operations: rinsing bottles, filling still liquids in clean PET bottles from 0,3 up to 1,5 liters and capping with tamper evident plastic caps. If required, the station can be equipped with an automated applicator and a laser marker. If required, the station can be equipped with an automated applicator and a laser marker.

The machine is made according to customer requirements

Extra options:

Container handling (injection of hydrogen peroxide before rinsing)
Dosing system design for CIP cleaning
Thermal tunnel for UV treatment of bottles before rinsing
Labeller (for applying a self-adhesive label on the bottle)
Crimping mechanism (for crimping the label on the bottle)
Thermal sensor (for stamping the date on the label)
CLEAN system - photocatalytic filter
Automatic module for grouping bottles
automatic film wrapping (without backing)
thermotunnel

Technical Data:

Productivity	2000 packs / hour
Weight	1250 kg
Overall dimensions	1104x2500x5200 mm
Power consumption	less than 1,2 kW
Voltage	220 V, 50 Hz.
Pressure	0,6 MPa
Compressed air consumption	1000 l/min



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Automated Machine for Twist-Off Vacuum Capping

The vacuum capping station is used for automated twist-off capping with cap feeding and positioning on a glass jar. On customer request, the station can be equipped with the automated labeler for stamping selfadhesive labels on the cap or the bottom of the jar, with thermodater, or with the laser labeler for putting dates

Advantages:

Reliability
Ease of operation
High vacuum quality

Extra options:

The Clean cleaning system
The accumulation table 1200 mm (rotary)

Technical Data:

Productivity:	up to 3000 pcs / hour
Dosing method	by volume
Material - stainless steel grade 12X1810T, 08X18T1 (approved for use in contact with food)	
Voltage	220V, 50 Hz
Power consumption	less than 2,5 kW
Voltage	24V
Pressure	0,6 MPa
Compressed air consumption	up to 800 l / min
Pressure control in the pneumatic system - visual (pressure gauge + control lamp)	



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Twelve-Dose Line for Filling Chemically Active Liquids

The line is designed for filling chemically active liquids into PET bottles of various sizes and configurations.

A new dosing system has been installed on the line. Dispenser type - flowmetric (flow meters). The filling heads are equipped with KROHNE high-precision electronic flow meters, which calculate the volume of liquid in the flow and transmit a signal to the control system. The design of the flowmeters ensures a high level of hygiene. The filling heads are lowered into the container by means of a servo drive and rise as the product is filled (without immersion in the product). The dispenser has a mode of automatic dose adjustment from the control panel. Possibility of connecting the dosing system to a centralized CIP washer.

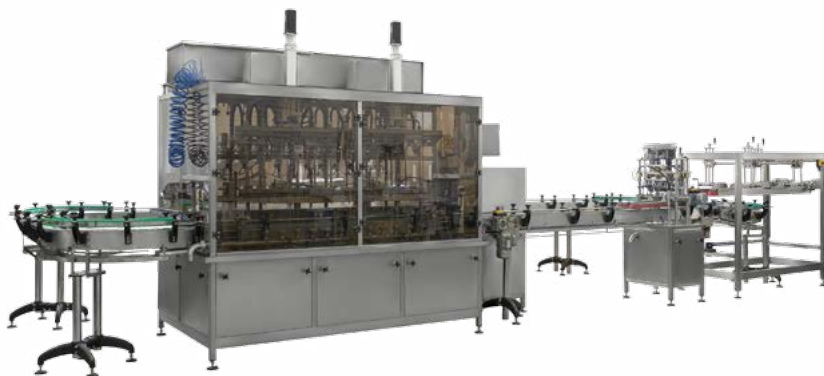
The line is manufactured in accordance with container samples

Technical Data:

Productivity	up to 2000 doses / hour
Weight	1975 kg
Overall dimensions	8300x2550x2900 mm
Power consumption	6,7 kW
Voltage	380 V, 50 Hz
Pressure	0,6 MPa
Compressed air consumption	
with flow meters:	300-400 l / min
without flow meters:	1000 l / min

Extra options:

Dosing system design for CIP cleaning
Flowmeters for precise dosing
Increased level of hygiene
Prevents product foaming
Contactless filling
The system of "heels" for a simplified transition to another standard size of containers



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Filling Line for Glass Bottles and Vacuum Twist-Off Caps

The line is designed for filling liquids into glass bottles from 100 to 500 ml, with automatic feeding and vacuum twist-off closure.

This line is equipped with an automatic labeling machine for applying self-adhesive labels, as well as a complex of group packaging in a shrink film. At the request of the customer, the output of the filled containers can be carried out on the storage table, or on the secondary group packaging.

Technical Data:

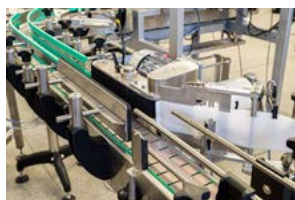
Productivity	1900 doses / hour
Weight	2400 kg
Overall dimensions	9374x2963x2450 mm
Power consumption	24 + 4 kW
Voltage	380 V, 50 Hz
Pressure	0,6 MPa
Compressed air consumption	1400 l / min

Extra options:

Cleaning system Clean
Accumulation table 1 200 mm (rotating)

Advantages:

Reliability
Easy to maintain
High quality evacuation



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Packing Complex Machine into PET Pots

Packing complex machine (linear, five-row) is used for packaging whey, kefir, condensed milk, Greek yogurt (jam + yogurt), other liquid and pasty products from the container in PET pots with sealing foil, capping the lid, applying PP label on the PET jar.

The line is made to individual order in accordance with samples of containers

Technical Data:

Kinematic capacity up to 8000 bags per hour



Complex includes:

1. Semi-automatic table for unpacking boxes with the original container
2. Module No. 1 in a dosed version for rinsing the container inside with a pot roll over system in a clean environment CLEAN (photocatalytic filter + fence)
3. Module number 2 in a dosed version for injecting disinfecting solution into a can with a can turn over system in a clean environment CLEAN (photocatalytic filter + fencing)
4. Dosage unit No. 1, dose 100-250 ml with connection of the unit to the CIP washing station
5. Capacity of the metering unit No. 1 for an autonomous heating system
6. Dosage unit No. 2, dose 10-75 ml with connection of the unit to the CIP washing station
7. Capacity dispensing unit number 2
8. Ultraviolet foil processing system
9. Knot of giving of a foil on can mouth
10. Knot sealing the head canister with foil
11. Rolling the foil along the contour of the can
12. Plastic lid delivery unit per can
13. Plastic cover capping assembly
14. Node sticker circular PP labels on the can
15. Conveyor system of supply and removal of containers
16. Accumulation table for finished products
17. Additionally, the line is equipped with:
 - a unit for the automatic reloading of foil into the foil division;
 - a unit for automatic reloading of covers into a node for dividing and laying covers



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Bottle Filling Complex

The triblock is designed for rinsing containers, filling liquid and pasty products into PET bottles or glass bottles from 0.3 to 1.5 liters, with automatic feeding and sealing of the lid.

At the request of the customer, the line can be equipped with an option for processing containers before filling, an automatic labeling machine (for applying a self-adhesive label), a temperature sensor or laser marker for putting the date on the label, group packaging of containers in foil.

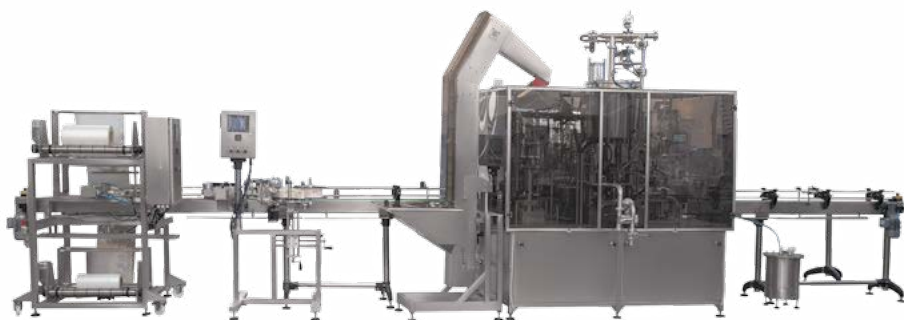
The line is manufactured in accordance with container samples.

Technical Data:

Productivity	1 500 doses / hour
Weight	1 800 kg
Overall dimensions	9500x1500x2500 mm
Power consumption	5 kW
Voltage	380 V
Pressure	0,6 MPa
Compressed air consumption	1200 l / min

Extra options:

Container handling (injection of hydrogen peroxide before rinsing)
Dosing system design for CIP cleaning
Thermal tunnel for UV treatment of bottles before rinsing
Labeller (for applying a self-adhesive label on the bottle)
Crimping mechanism (for crimping the label on the bottle)
Thermal sensor (for stamping the date on the label)
CLEAN system - photocatalytic filter
Automatic module for grouping bottles; Automatic film wrapping (without backing); Heat tunnel



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Packaging Complex for Filling into a Tin Bottle

The filling complex performs a full cycle of filling into a tin bottle. The container for filling is fed to the accumulating table with a twisted lid, the conveyor delivers the container to the unwinding unit, in which the lid and the bottle are separated and sent along conveyors for further operations. After rinsing, the bottle moves to a linear filling unit with 4 dispensers for filling, the lid, after rinsing, moves to the unit for screwing the lid onto the bottle. The sealed container with the product passes through the labeling complex for applying a self-adhesive label and is fed to the accumulation table for subsequent packaging

Technical Data:

Kinematic productivity	1500 packs / hour
Voltage	380/220 V, 50 Hz
Air pressure	0,6 - 0,8 MPa
Volumetric dosing	method
Dose error	+/- 2%



The complex includes:

- Cover spinner carousel
- Container rinsing unit inside
- Linear product filling unit
- Labeller
- Lid rinsing unit inside
- Cap feed and twist unit

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Filling Complex for Filling into Plastic Canisters



Line for filling liquid fertilizers into canisters up to 10 liters with weighing dosing for foaming products with feeding and sealing caps

Technical Data:

Productivity (with product)	up to 250 doses / hour
Dosing method	by weight



The complex includes:

- Infeed conveyor up to 4 m
- System for pushing canisters from the feeding conveyor to the weighing platforms of the filling unit.
- Filling unit with 3 descending filling heads and 3 weighing platforms. The filling unit is completed with a capacity of 150 liters with the possibility of creating an overpressure of 2-3 bar.
- Conveyor system for feeding canisters from the filling unit to the lid screwing unit
- Automatic lid tightening unit with lid feeder.
- Pushing unit from the conveyor system to the outfeed conveyor, standing at an angle of 90 degrees (to fit into the allotted space of the production room)
- Outfeed conveyor 4 m
- Air knife to blow off condensation drops before labeling (for "cold" products).
- Paper backed labeling machine

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3. Packing in Bags and Roll Materials

The machines are designed for filling liquid and pasty products:

- in two-seam and three-seam bags of various sizes, formed from a roll of polyethylene film,
- into ready-made packages like zip lock,
- into briquettes formed from a roll of laminated foil or parchment.

The machines for filling carton bags of pure pack type, depending on the packaging configuration, are equipped with an ultrasonic lid soldering unit.



Packing in laminated foil



Packing in plastic wrap



Filling in pure pack cartons



Packing in zip-lock bags



Packing in a three-seam bag with a flat bottom



Packing in a three-seam package

Aseptic Automated Machine for Packing into Polyethylene Bags

The filling machine ADNV 39 P is designed for filling liquid and pasty products in plastic wrap.

The main advantage of this model is the aseptic technology of packaging material processing.

Thanks to the air purification system, a clean environment is constantly maintained inside the machine. Compartments for sealing the side and horizontal seam are equipped with a flue gas discharge system to the central ventilation.

Technical Data:

Productivity	up to 2500 doses / hour
Voltage	380V 50Hz
Power consumption	2.5kW
Compressed air consumption	700 l / min
Pressure	0.6 MPa
Overall dimensions of the machine	3170x1140x2610 mm
Weight	750 kg

Advantages:

Reliability
High performance
Well-packed products
Serviceability
Aseptic filling

Options:

CIP connection
Cleaning system Clean



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Automated Machine for Packing into Polyethylene Bags

The automated machine is used for packing liquid and paste-like products into polyethylene bags

Advantages:

- Reliability
- Ease of operation
- High sealing quality

Technical Data:

Kinematic productivity	up to 2500 doses p/h
Overall dimensions	1560x950x2600 mm
Weight	460 kg
Voltage	220V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	500 l/min



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Sachet Type Polyethylene Bag Filling Machine

The machine is designed for packing liquid and pasty products in plastic wrap

Advantages:

- Reliability
- High performance
- Well-packed products
- Possibility of packing various liquid and pasty products

Technical Data:

Kinematic productivity	up to 3000 doses / hour
Overall dimensions	1650x940x2380 mm
Weight	600 kg
Voltage	380 V, 50 Hz
Power consumption	no more than 2.5 kW
Pressure	0.6 MPa
Compressed air consumption	500 l / min



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Automated Machine for Packing into Polyethylene Bags

The automated machine is used for packing liquid and paste-like products into polyethylene bags

Advantages:

Reliability
Ease of operation
High sealing quality
The ability to pack various liquid and pasty products

Technical Data:

Kinematic productivity up to 5000 doses p/h	
Measuring method	by volume
Overall dimensions	2560x1000x2600 mm
Weight	900 kg
Number of streams	2 pcs
Voltage	380V, 50 Hz
Power consumption	less than 6 kW
Pressure	0,6 MPa
Compressed air consumption	1000 l/min



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Plastic Bag Filling Machine (two-module)

The machine is designed for packing liquid and pasty products in plastic wrap

Advantages:

- Reliability
- High performance
- Well-packed products
- Possibility of packing various liquid and pasty products

Technical Data:

Kinematic productivity	up to 5000 doses / hour
Dosing method	by volume
Overall dimensions	2172x2697x1394 mm
Weight	808 kg
Number of modules	2 pcs
Voltage	380 V, 50 Hz
Power consumption	no more than 6 kW
Pressure	0,6 MPa
Compressed air consumption	400 l / min



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Automated Machine for Packing Dry-Goods into Bags

The automated machine is used for packing different multi-component dry products into three seams bags with flat bottom formed from roll stock material

Advantages:

Reliability
Ease of operation
High sealing quality
Serviceability

Technical Data:

Working capacity depending on the properties	
Productivity	up to 40 doses p/min
Voltage	380/220V, 50 Hz
Power consumption	3 kW
Compressed air consumption	500 l/min
Pressure	0,6 MPa
Overall dimensions	1560x950x2600 mm
Weight	600 kg

Options:

Thermometer
Conveyor for feeding the product into the hopper with a ripper
Outfeed conveyor with tray and bag counter



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UNITRONICS

Automated Machine for Packing Cottage Cheese into Bags

The automated machine is used for packing cottage cheese products into three seams bags with flat bottom

Advantages:

Reliability
Ease of operation
High sealing quality

Technical Data:

Working performance depending on product properties and dose volume:	up to 20 doses p/min
Voltage	380/220V, 50 Hz
Power consumption	3 kW
Compressed air consumption	500 l/min
Pressure	0,6 MPa
Pneumatic equipment	Camozzi (Italy)
Overall dimensions	1560x950x2600 mm
Weight	600 kg

Thermometer

Conveyor for feeding the product into the hopper with a ripper
Outfeed conveyor with tray and bag counter



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Model Range of Filling Lines for Carton Bags Type PURE PACK

The automated machine is used for filling and vacuum packaging of liquid, viscous, and paste-like products from 0,25 ml up to 1 liter into PURE-PACK carton bags, type A и B.

The assortment includes: milk, cream, kefir, fermented backed milk (ryazhenka), sour cream, yoghurts with pieces of fruits, juices, and wine.

Technical Data:

Voltage	380/ 220 V, 50 Hz
Air pressure	0,6 MPa
Compressed air consumption	no more than 2000 l/ min

Extra options:

Thermodater

Connection to the CIP-cleaner

The CLEAN deaning system

The local cleaning station

Advantages:

Quick reconfigurability for a different bag volume

Ease of operation



1500 bags ρ/h

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2000 bags p/h



3000 bags p/h

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PURE-PACK Bag Packing Complex Machine

The automated machine is used for filling and vacuum

packaging of liquid, viscous, and paste-like products from 0,25 ml up to 1 liter into PURE-PACK carton bags, type A и B.

The assortment includes: milk, cream, kefir, fermented backed milk (ryazhenka), sour cream, yoghurts with pieces of fruits, juices, and wine

Technical Data:

Kinematic capacity	up to 3000 bags per hour
Voltage	380/ 220 V, 50 Hz
Air pressure	0,6-0,8 MPa



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Complex includes:

- The PURE-PACK Bag Packaging Station ADNK 39 P-P
- CIP Station for Local Washing of the Packaging machines ADNK 19
- Multi-Packing of Bottles into Tape with Shrinking ADNK 39 GUP

Automatic Filling Machine for Zip-Lock Bags

The machine is designed for packing various products into zip-lock plastic bags.

Advantages:

- Reliability
- Easy to maintain
- High quality package sealing

Technical Data:

Productivity	600 packs / hour
Overall dimensions	4500x2750x2300 mm
Weight	1180 kg
Voltage	380 V, 50 Hz
Power consumption	no more than 4.5 kW
Pressure	0.6 MPa
Compressed air consumption	1400 l / min



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Horizontal Packing Machine Flow Pack

The machine is designed for packing medium-sized piece products (cottage cheese briquette, ice cream, bakery products, products in a corex, etc.).

This machine uses 4 independent electric drives: a feeding conveyor, longitudinal sealing rollers, transverse sealing jaws, and a discharge conveyor. Mechanically decoupled drives simplify the entire machine mechanics, shorten changeover times and eliminate many gears, all of which have a positive effect on performance.

Advantages:

- Control modes using an intuitive interface on the touch panel.
- Automatic synchronization of the speed of the machine with the speed of the filling equipment.
- Powder coated carbon steel frame (optional AISI 304 stainless steel)
- Self-centering roll holder with automatic tension adjustment mechanism.
- The length of the bag is adjustable according to the length of the product using a photo sensor or timer.
- The feeding conveyor automatically synchronizes the position of the product with the position of the jaws of the cross sealer.
- Adjustable sleeve shaper for packaging products of different shapes.
- 3 pairs of broaching rollers in the longitudinal sealing unit.
- Pneumatic drive for longitudinal sealing rollers.
- Independent PID temperature control for each welded roller and for the top and bottom weld jaws. Installed on the touch screen.
- Adjustment of the position of the transverse sealing jaws depending on the height of the product to position the seam exactly in the middle of the package.

Technical Data:

Productivity	6000 packs / hour
Dimensions of the packaged product:	
- length: 60 - 420 mm	
- width: 20 - 180 mm	
- height: 1 - 70 mm	
Length of the feeding conveyor	1200 mm
Outfeed conveyor length	650 mm
Power supply	220 V / 50 Hz
Power consumption	no more than 3 kW
Air consumption	no more than 5 l / min
Dimensions (LxWxH)	2930 x 1750 x 1035mm
Weight in basic version	450 kg

Extra options:

- Tray for collecting crumbs under the feeding conveyor
- Gas injection into the package
- Bracket for installing the inkjet printer on the roll holder



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Automated Machine for Packing Products into Briquette

The machine is used for packing butter, spread, margarine, cheese and other pasty products in parchment paper or aluminum foil

Technical Data:

Productivity	up to 3000 doses / hour
Carousel swing drive	electromechanical
Voltage	220V, 50 Hz
Power consumption	2,5 kW
Compressed air consumption	500 l/min
Pressure	0,6 MPa
Volumetric dosing	method
Briquette weight	up to 250 gr
Briquette size	100 x 75 x 37 mm



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4. Packaging Products in Tubes and Bottles

The machines are designed for filling liquid and pasty products:

- in tubes of various sizes and configurations,
- in cartouches intended for petrochemical products,
- in small vials.

Depending on the particularity of the container closure, the filling machines can be equipped with the appropriate units:

- sealing the scallop of the container,
- capping unit,
- capping with a non-standard lid.



Packing in cartouches



Packing in tubes



Packing in cartouches

Automatic Tube Filling Machine

The filling machine ADNK 39 is designed for filling pasty products into tubes of various configurations. This model is designed for cosmetic products and has a replacement kit for switching to another type of container

Advantages:

- Reliability
- Easy to maintain
- Quick changeover to another standard size or other container shape

Technical Data:

Performance (with product):	
• Electromechanical	- up to 1750 doses / hour
• Servo drive	- up to 2000 doses / hour
Overall dimensions	900x900x1800 mm
Weight	270 kg
Voltage	220V, 50 Hz
Power consumption	3.3 kW
Pressure	0.6 MPa
Compressed air consumption	up to 500 l / min

Extra options:

Replacement kit



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Cartouche Filling Machine

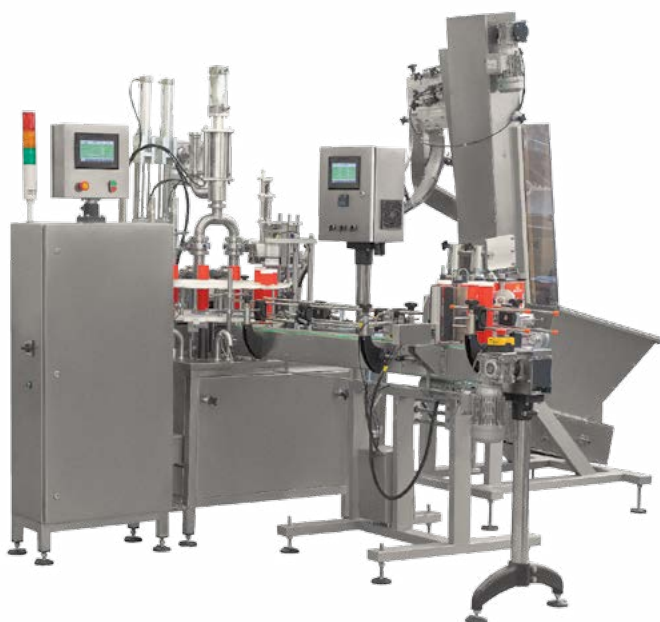
The ADNK 19 LR line is designed for filling a dense homogeneous mass into plastic tubes (cartouches) with automatic feeding and sealing of the lid.

Technical Data

Kinematic productivity	up to 1200 doses / hour
Weight	460 kg
Voltage	220/50/380 V / Hz
Power consumption	2 kW
Pressure	0.6 MPa
Compressed air consumption	500 l / min

Advantages:

Reliability
Easy to maintain



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Automatic Filling Machine for Cosmetic Bottles

It is intended for filling liquid and pasty products into cosmetic bottles and containers of various shapes with sealing with a plate made of valkildie or foil and sealing with a plastic lid.

Advantages:

- Reliability
- Easy to maintain
- High quality sealing plate
- Vacuum compensator (to prevent swelling of the plate)
- Quick changeover to another standard size or another container shape

Extra options:

- Additional dispenser for filling two products into one glass
- Replacement kit
- Feeding hopper with auger and heating up to 120 l
- Capping unit with a plastic lid

Technical Data:

Productivity	up to 2000 doses / hour
Overall dimensions	900x850x1800 mm
Weight	230 kg
Voltage	220V, 50 Hz
Power consumption	no more than 1.2 kW
Pressure	0.6 MPa
Compressed air consumption	250-300 l / min



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5. Shipping Packaging

The equipment is designed for group packaging of prepackaged products. The advantage of secondary packaging of goods is the convenience of storage and transportation of prepackaged products without damaging the primary container.

Depending on the type of packaging for finished products, the machines are divided into:

- cartoning machines for packing bags into boxes,
- group packers in tray boxes,
- group packers in shrink film.



Group packing in thermofilm



Group packing of bags in boxes



Group packing in tray boxes

Cartoning Machine for Packing Bags into Boxes

The equipment is designed for automatic grouping and stacking of a given number of packages into cardboard boxes.

Boxes are folded by a shaper from a stack of blanks

Advantages:

Reliability
Easy to maintain

Technical Data:

Productivity	up to 8000 packs / hour
Dimensions	2550x2070x8200 mm
Weight	1557 kg
Voltage	380 V
Power consumption	5 kW
Pressure	0.6 MPa
Compressed air consumption	500 l / min



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Shipping Packaging

Group Packaging of Containers in Shrink Film

The two-roll type automated bundler is used for bundling PET bottles of the required pattern and further heat shrink filming



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Technical Data:

Productivity (working)	up to 500 boxes p/h
Weight	380 kg
Voltage	220V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	500 l/min

Advantages:

Reliability
Ease of operation
High sealing quality



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Tray-Box Former, the Bundler and the Palletizer for Tray-Boxes

The station is used for multi-packing into tray-boxes. It includes an automated tray-box former, a bundler, and a palletizer. The size of the corrugated box is set according to customer specifications.

Operation description:

The former folds a tray into a box. The box further moves along the conveyor. The bundler forms the packed product on the conveyor, and the palletizer puts it into the box. Then the conveyor moves the packed tray-box to the stacker

Technical Data:

Productivity	up to 700 doses p/h
Overall dimensions (without conveyor)	6000x1000x2500 mm
Weight	650 kg
Voltage	220V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	350 l/min



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Two-Strand Tray-Box Former

The machine is designed to form a standard type corrugated tray, or a tray-box with cells from a corrugated sheet blank.

The two-strand tray-box former can be used both as a separate position and as a part of filling complexes with high productivity.

Technical Data:

Productivity	up to 1400 cartons / h
Voltage	220 V, 50 Hz.
Power consumption	0.75 kW
Pressure	0.6 MPa
Compressed air consumption	90 l / min
Overall dimensions	2670x1495x1190 mm
Weight	640 kg



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Laser Marker for Putting a Date

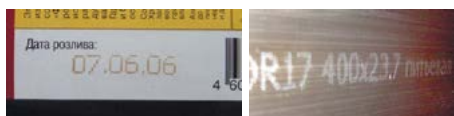
The laser is used to quickly and effectively put information (date, logo, pictures, bar-code, etc.) on different types of packaging. The laser can be used on various types of production: distillery enterprises put required information on a label, glass, or a cap; dairy producers mark Pure Pak, and cheese; food industries put a date on Tetra Pak, PET bottles and on other types of packaging; cable and pipe manufacturers insert their data on wire, cables, and pipes. The laser labeler is also useful for labelling tobacco, pharmaceutical, cosmetic, and other industries with high standards on environmental cleanness and ecological compatibility. The laser labeler can put information under different production conditions: on high-speed conveyors or on static objects

Advantages:

- High labeling speed
- Economy (does not require accessories and supplies)
- Noncontact
- Non-erasable labels (counterfeit protection)
- The possibility to put different types of information
- Ease and effectiveness of operation
- Small size
- Steel body
- The possibility to put labels on various types of materials

Technical Data:

Type	CO ₂
Radiator power	10/40 W
Speed	100 sym/sec
Overall dimensions	220x160x700 mm
Weight	15 kg
Power consumption	500 W



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Automated Labelling Machine

The labelling machine is developed for stamping a ring polypropylene label on a gas-filled PET bottle or cylindrical glass container

Technical Data:

Productivity	up to 6000 labels p/h
Label width	50 - 120 mm
Label length	200 - 360 mm
Reel size	up to 450 mm
Dimensions	2500x1400x1500 mm
Power consumption	less than 300 W
Voltage	220 V, 50 Hz



The labelling machine was developed for stamping self-adhesive labels. It includes a stand, a labelling head, and a control box. The labelling head can be adjusted horizontally and vertically. It has a thermal printer for putting dates on self-adhesive labels

Technical Data:

Label Width:	
standard modification	up to 130mm
increased modification	up to 200mm
Label length 30 mm	500 mm
The size of the roll	
Reel size:	inner 25 mm
	outer 300 mm
Separation speed	up to 20 m/min
Label sticking error	+/- 1, 5 mm
Dimensions	850x850x1700 mm
Display panel	two-row LED display
Working conditions (noncondensing)	5-40 C, 30-80 %
Power consumption	less than 300 W
Voltage	220 V, 50 Hz



Optional Equipment

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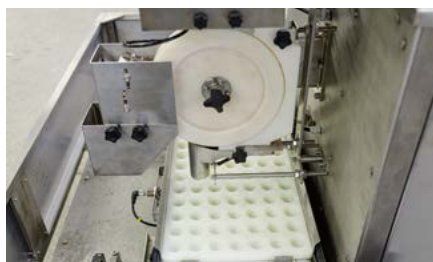
Automatic Machine for Making Cheese (curd) Balls

"Kurt (Kurut)" is the national cheese snack of the countries of Central Asia.

The machine is designed for making cheese (curd) balls.

Technical data:

Productivity	up to 1500 doses / hour
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Blending Station

The Blending Station is used for proportional blending of various liquid products and feeding the ready product into the accumulation container of the measuring automated machine

Technical Data:

Productivity	up to 3000 liters/p/h
Overall dimensions	2900x1900x2910 mm
Weight	650 kg
Voltage	380V, 50 Hz
Power consumption	less than 5 kW
Pressure	0,6 MPa
Compressed air consumption	less than 150 l/min

The Blending Station includes:

Product feeding pump	
Fruit-flavor feeding pump	
Product flowmeter	
Fruit-flavor flowmeter	
Blender	
Product accumulation container	
Cleaning liquid return container	
Fruit-flavor aseptic bag packaging tray	



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Tanks, Conveyor Systems, Storage Tables

- Standard filling containers of from 30 up to 200 liters are used for feeding the product into the measurer. Non-standard filling containers are used both for feeding the product into the measurer and for making the product. Non-standard containers are made on individual customer requests. The cheese container, for example, consists of two containers inserted one into another. The inner container of 100 liters stores the product. The surface between the two containers is filled with 80 liters of water - the water jacket. The water jacket is heated by an electrical heating element. Its power down-and-up is controlled by the thermocontroller. It keeps the water jacket temperature within the predetermined range. The circulator provides for maintaining uniform temperature throughout the water jacket. Water is discharged through a tap on the drain pipe underneath the container. It is also possible to implement a container with a water jacket without a heating element, but with a hot water supply.
- The container is equipped with an electric drive blender inside. It is possible to set the required blending direction and speed. Cutting of the cheese curd in horizontal slices is carried out by a handoperated blender with slicers. Vertical slices are made by a cutter that is hand-operated for moving up and down within the container.
- Production of conveyors for a wide range of applications in various industries. Work is carried out under the customer's order for a different type of product.
- Accumulation tables are designed to receive finished products from the main equipment for subsequent packaging or loading.



CIP Station for the Local Washing of the Packaging Machines

The semi-automated local station is used for washing pipe-lines (up to 30 meters), not big containers (up to 1-1,5 square meters), and measuring stations of the packaging equipment that are capable of connecting to the CIP station.

The list of equipment depends on customer requirements:

The following equipment contains:

- 1 Water container
- 2 Alkaline solution container
- 3 Acid solution container
- 4 The splitter station for solutions
- 5 A control box

It is also possible to install a container for the disinfection solution.

The containers are filled by the machine man. He also makes the alkaline and acid solutions according to the recommendations provided by the company's technologists.

After the machine man prepares the station and presses Start, the station waits for the receipt signal from the object being washed. As soon as the signal is received, the station switches on its feeding and splitting pumps. Water and solutions' withdrawal and return are carried out automatically, with the help of the splitter stations, and can be programmed by the machine man in accordance to the recommendations provided by the company's technologist



Stainless Steel Enclosures

Stainless steel cases for any requirements of modern production: from the placement of individual mechanisms to automatic production lines



- Enclosures for automation equipment
- Enclosures for electrical power distribution systems
- Control Enclosures
- Cases for computer and telecommunication equipment

Technical data:

- Degree of moisture protection: IP 66
- Case thickness -
1 mm for cabinets up to 760 mm wide
1.5 mm for enclosures from 800 mm wide
- Door thickness -
1 mm for cabinets up to 380 mm wide
1.5 mm for enclosures from 400 mm wide
- Panel thickness - 2 mm
- Weld seams are ground to Ra 2.5

Material:

- The case - AISI 304 stainless steel
- Door - AISI 304 stainless steel
- Mounting plate - galvanized steel 2 mm
- Locks and hinges - chrome steel

Advantages:

- Large selection of sizes
- The equipment is fully protected from the negative effects of dust and moisture.
- Reliable protection against corrosion and mechanical damage
- Enclosures for electrical panels are equipped with a reversible door



Air Cleaning Machine

The machine is located inside the station for bottling dairy products.

The sterilization of the atmosphere achieved by the catalytic disinfection and complete oxidation of all microorganisms (mold, viruses,

bacteria, fungi, etc.) contained in the air.

The air is pumped (filtered) through a photocatalytic element where the influence of UV-radiation safe for humans, all microorganisms are

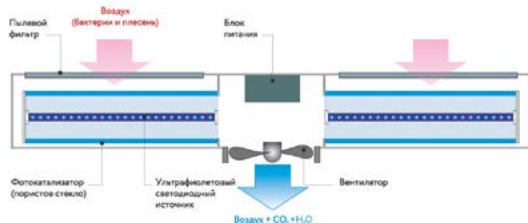
neutralized and oxidized on the photocatalyst to gaseous CO_2 and H_2O .

The patented photocatalytic filtration element consists of chemically inert and harmless materials - sintered quartz glass and titanium dioxide.

A set of high-power UV-LEDs is used as a radiation source. The source of UV radiation does not contain mercury and is absolutely safe.

Productivity of the disinfecting recirculating device - 1-2 cubic meters of clean air per minute.

Network voltage 220 V, power consumption - not more than 100 W (depends on the total fan power and LEDs)



Dispenser D100

The design combines several functionalities in one body.

The touch dispenser dispenses the disinfectant solution into the palm of your hand when you bring your palm to the touch sensor. There is no need to touch the device and run the risk of virus infection.

A non-contact thermometer is located on the right side of the device and allows you to measure body temperature on the wrist. Measurement duration no more than 0.8 sec, measurement accuracy up to 0.5°C . Measurement distance is not less than 10mm.

The measured temperature is displayed on the LED display. When the temperature exceeds the set norm, the red indicator turns on.

The device operates on a 220V network (the device is optionally equipped with a battery)

Container capacity with antiseptic up to 1L

Options

- Speech duplication of the measured temperature
- Connection to the turnstile
- Battery



Disinfecting Solution BIOPAG-D

The disinfecting solution BIOPAG-D

BIOPAG-D is used for effective sanitizing and long-term protection in food and other industries.

It is recommended to use the disinfectant for sanitizing different types of production equipment – bowls, containers, heat-exchange units, filling and packing stations, pipe-lines, inventory, packing materials, and production surfaces in dairy industry, for sanitizing vehicles used for transporting raw and ready materials, and also as a bactericidal and fungicide agent for whitewash and water-based paint (polyvinyl acetate)



Technical characteristics:

- Long-term antibacterial protection (from 7 days – to 36 weeks);
- Resisting deodorant quality, fully eliminates, for example, whey smell, etc;
- Fights mold and fungi;
- Odor and color-free;
- Non-allergic;
- Non-corrosive;
- Low-hazardous;
- Economic (1 liter per 4000 square meters).

Tests have shown that BIOPAG-D provides a long-time antibacterial protection in regard to *Staphylococcus aureus* (strain 906), *Candida albicans* (strain 15), *Mycobacterium B* during 36 weeks.

Long-term tests have shown that the wide range of use and appliance, high antibacterial quality, and long-time effect can help producers lower their sanitizing costs.

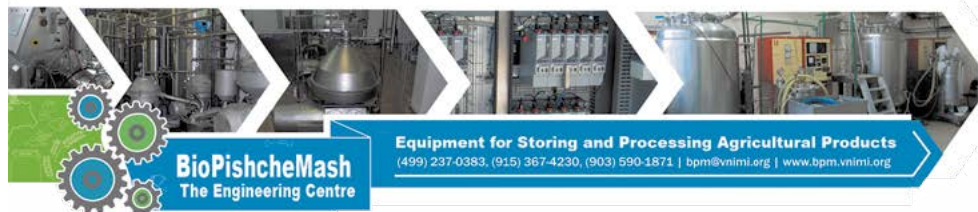
All the sanitizers are certified, have proper licenses and recommendations, and are successfully applied by many Russian producers.

All the sanitizers are certified, have proper licenses and recommendations, and are successfully applied by many Russian producers.

Disinfecting Solution Hygiene Med



- Alkaline non-foaming agent with a disinfectant effect for cleaning containers, dishes and vessel equipment with an antifoam effect.
- Structure:
Optimized mixture of alkali, special detergents, complexing agents, antifoaming and disinfecting additives, corrosion inhibitors
- Alkaline foamy agent for sanitizing food processing equipment (based on HR).
- Structure:
Caustic soda, an optimized mixture of foamy surfactants and complexing agents, as well as active detergents and disinfectants.
- An acidic non-foaming agent for sanitizing equipment.
- Structure:
Optimized mixture of organic and inorganic acids, non-foaming surfactants, corrosion inhibitors and complexing agents, as well as active detergents



BioPishcheMash
The Engineering Centre

Equipment for Storing and Processing Agricultural Products
(499) 237-0383, (915) 367-4230, (903) 590-1871 | bpm@vnimi.org | www.bpm.vnimi.org

Since 1997 the All-Russia Scientific Research Institute of the Dairy Industry has had an engineering department developing cross-sectoral technical equipment and complexes for storing and processing agricultural products. The broadened service range called

Optimal Engineering Solutions For Producing and Processing Food and Dairy Products

- Development of manufacturing and non-standard equipment, stations, and centers. Modernization
- Development of equipment layout solutions, manufacturing optimization
- Producing, shipping and installing of stations, equipment, steel ware, pipe lines, and materials
- Shipment and installation of power and low-power lines, KIP/A (instrumentation and controls), remote and automated control systems
- Adjusting and start-up procedures, launching, and service backup

The Engineering Center BioPishcheMash offers its pilot center based on the Institute territory, and consisting of more than twenty experimental equipment samples, pilot and research installations for research, fine-tuning, and producing test samples.

The Pilot Center provides the following range of services:

- Heat treating, Melting, Cooling
- Refining, Homogeneous blending, Dispersion
- Blending, Separation, Plansifter
- Gas-tubing (whipping), Ozonifier
- Micro-, Ultra-, Nano-filtration
- Concentration, Drying, Baking
- Disinfection, Cleaning, UV-, and IR treatment
- Packaging, Forming, Back-up, Storage

All the pilot equipment samples of the aforementioned technologies can be shipped, installed, and integrated into production with a full cycle of small-scale processing.

Individual equipment units:

- Container equipment
- Homogenizers, Dispersers
- Melting boilers, Aerators
- Separators, Centrifuges
- Membrane and Mass-exchanging equipment
- Driers for solid, liquid, and paste-like products
- Mills, Sieves, Mixers

Projects, Equipment Complexes, Stations

- Dairy production and processing
- Cleaning and disinfection of food products
- Environmentally-safe processing of agricultural waste products
- Processing of meat-, fish-, and poultry-processing industries' waste products



The Engineering Center BioPishcheMash LLC
35/7, Lyusinovskaya Str
115093 Moskva

8-499-273-03-83, 8-903-590-18-71, 8-915-367-42-30;
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PACKAGING FACTORY **MILK**



We are not a mere packaging producer. Our strong points are not only our engineers and employees and the most modern equipment and innovative technology.

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The Packaging Factory MILK - is an innovative enterprise that complies with the highest food packaging standards.

The Packaging Factory MILK - is a European quality at the price in Russia



The Packaging Factory MILK - is today's leading producer of food packaging made of foil with heat seal lacquer in Russia

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The Packaging Factory MILK - is 2000 square meters of the most innovative production space and 800 square meters of office space.

Address:
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+7 (4872) 72-50-16
+7 (800) 250-51-16 (multi-channel)
www.milkpack.ru



Profitex Geography



Moscow office:
mob.: +7 (962) 439-37-88

357528, Stavropol region,
Pyatigorsk, st. Kochubei 67, lit. M, of. 1
8 800 775-74-90 (free)
tel.: +7 8793-98-92-82, +7 8793-98-94-32
mob.: +7 (962) 404-77-26

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Sales department: sales@profitex.ru