



Filling and Packaging Machinery

Machines Catalogue

Do you want customers to prefer your product over the variety of other supplies on the market? If your answer is Yes, then the machine-building plant PROFITEX will help you achieve this!

The machine-building plant PROFITEX is one of the leading manufacturers of packaging and labelling machines for the food and other industries. The history of our achievements is a classic example of foundation and development that owe much to the right choices we made in the very beginning. Our formula of success is working for individual customer needs – the product and its packaging. Thus, our customers can get not only high-quality packing machines, but the packaging designed specially for their product. The plant offers a full range of services: from project creation to delivering the machines right to the client. We also support our customers all the way, including the after-sales services.

During fourteen years of its development, PROFITEX managed to not only widen the range of produced packaging machines, but also to design and introduce labelling machines, automated filling lines, a device for sealing foil and polyethylene, conveying systems, accumulation tables, and multi-packers. We are especially proud of our laser marker designed for the quick and efficient application of any information on different types of packaging.

Thanks to the continuous participation in domestic and national exhibitions, seminars, and conferences we keep moving towards the latest achievements and tendencies on the market. Since its foundation, PROFITEX has participated in more than 150 seminars, exhibitions and International Forums, has been many times rewarded with diplomas, medals and Grand Prix. "The V Moscow International Salon of Innovations and Investments" awarded our plant with a bronze medal and a diploma of "The International Institute of the European Community on Promoting Commercial Manufactures" for the development and implementation of the laser marker. At the Tech Salon 2006 "The Technology of the Third Century" PROFITEX won a Grand Prix for high-performance in industrial product labelling. Our packaging machinery was honored with "The 100 Best Products in Russia" award. Our ADNK 39M machine was also granted with the Gold medal for an innovative and precise packaging of curds cheese.

Our machines is used by more than a thousand companies in Russia, neighboring countries and beyond. We have clients in Belarus, Kazakhstan, Uzbekistan, Azerbaijan, Moldova, Ukraine, Latvia, Greece, Hungary, Canada, and others.

Currently we have more than 100 employees, mainly university graduates involved in scientific and technical research.

Our packaging machines makes our clients more prosperous! – says Yuriy Georgievich Knyazev, PROFITEX's managing director.

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The Linear Type Packaging Machines

1. The bag packaging station of type PURE-PACK
2. The bucket packaging station
3. The bottle packaging station
4. The four-row automated machine for packing in plastic cups
5. The sauerkraut packaging station



The Linear Type Packaging Machines

1. The PURE-PACK Bag Packaging Station

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
Electric line and block system voltage	24 V
Total capacity	up to 26 kW
Air pressure	0,6-0,8 MPa
Compressed air consumption	less than 900 l/min
Overall dimensions	3200x2700x1 200 mm

Extra options:

The ultrasonic applicator for sealing

Thermometer

Connection to the CIP-cleaner

The CLEAN cleaning system

The local cleaning station

Advantages:

Quick reconfigurability for a different bag volume
Ease of operation



2. The Bucket Packaging Station

3. The Bottle 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:**
The capacity of the station is up to 1 000 buckets per hour.
Pneumatic equipment Camozzi
Electric equipment Omron

Technical Data:

Capacity	Up to 3000 bottles/p/h
Measuring methods	- by volume - by level - by time
Voltage	220 V 50 Hz
Power consumption	less than 2,5 kW
Pressure	0,6 MPa
Compressed air consumption	less than 250-300 l/min



4. The Four-Row Automated Machine for Packing into Plastic Cups

The machine is used for packing liquid and paste-like products into plastic cups from 100 up to 500 ml with die-cut sealing made of Walkild, foil, or rolled tape, and capping with a plastic lid.

The Structure:

- 1. The air handling unit with a cleaning filter
- 2. The feeding unit
- 3. The cup monitoring sensor
- 4. The automated measurer
- 5. The die-cut feeding unit - from pile to cup (cassette)
- 6. The die-cut monitoring sensor
- 7. The die-cut sealing station
- 8. The date marker
- 9. The cap feeding and capping unit (from pile)
- 10. The cup delivery unit
- 11. The control center (a touch-sensitive monitor)
- 12. The controller (Omron, Japan)
- 13. The driver - servounit

Advantages:

- High productivity
- High die-cut sealing quality (a spiral pipe heating element)
- Vacuum balancer (against buckling)

Technical Data:

Working capacity	up to 8000 cups p/h
Voltage	380 V/50 Hz
Power consumption, kW	less than 1, 5
Compressed air consumption l/min	1500
Pressure, MPa	0,6
Pneumatic equipment	Camozzi, Italy
Overall dimensions	see the configuration
Weight, kg	less than 2500
The number of rows	4
Measuring method	by volume
Error range, %	+/- 2

Extra options:

- Connection to the CIP-cleaner
- Automated cup feeding
- Automated lid feeding
- The Ultra Clean cleaning system
- The automated measurer control
- The accumulation table 1 200 mm (rotated)



5. The Sauerkraut Packaging Station

The station is used for packing sauerkraut, fermented vegetables, and sea cabbage into plastic with die-cut or tape sealing and capping.

Technical Data:

The working capacity	up to 1300 doses/p/h
Voltage	220 V, 50 Hz.
Power consumption	less than 1,5 kW
Pressure	0,6 MPa
Compressed air consumption	400 l/min

Advantages:

- The minimum possible mechanical impact on the product
- The capability to tune the measurer for different types of salad hardness
- Ease of operation



The Rotary Type Packaging Machines

1. The automated machine for packing into a bottle, can, or a pot
2. The one-row automated machine for packing into plastic cups
3. The two-module automated machine for packing into plastic cups
4. The two-row automated machine for packing into plastic cups
5. The three-row automated machine for packing into plastic cups
6. The four-row automated machine for packing into plastic cups
7. The two-row - two-rotary automated machine for packing into plastic cups
8. The automated machine for packing curds into plastic cups
9. The automated machine for packing cottage cheese into plastic cups
10. The automated machine for packing into buckets
11. The automated machine for packing ice-cream into plastic cups, waffle cones
12. The automated machine for packing three-component products into plastic cups
13. The automated machine for lamister packaging
14. The automated machine for packing dry-goods into plastic cups

1. The Automated Machine for Packing into a Bottle, Can, or a Pot

ADNK 19 LR

The station is used for packing liquid and paste-like products with pieces of vegetables into PET cans from 100 to 500 ml, with rolled tape sealing, and screw top capping.



Advantages:

Small size
Reliability
Ease of control
A quick switch to a different type, size, and form

Technical Data:

Productivity with product	up to 2000 packs/h
Rotary driver	servo unit
Weight	460 kg
Overall dimensions	900x850x1900 mm
Power consumption	less than 1,2 kW
Voltage	220 V, 50 Hz.
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min
Electric equipment	Omron (Japan)
Pneumatic equipment	Camozzi (Italy)

Extra options:

Bacterial treatment tunnel
Barrier
Interchangeable set
Conveyor



2. The One-Row automated Machine For Packing into Plastic Cups

ADNK 39

The machine is used for packing liquid and paste-like products into plastic cups of different size with die-cut sealing made of Walkild 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



3. The Two-Module Automated Machine For Packing Into Plastic Cups

ADNK 39 D

Advantages:

Gradual modular growth
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:

The productivity of one module (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	900x850x1800 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

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

The machine is used for packing liquid and paste-like products into plastic cups and containers of different forms, with die-cut sealing made of Walkild or foil, and capping with a plastic cap. The machine has a modular construction. The advantages of such a construction are clear: it's possible to gradually add modules along with enlarging the volume of production and sales- from 1 to 9. The productivity can thus be enlarged from 2000 to 18000 doses/p/h.

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.



4. The Two-Row Automated Machine for Packing into Plastic Cups

ADNK 39D

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 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 conv.)	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)



5. The Three-Row Automated Machine for Packing into Plastic Cups

ADNK 39D

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 three-row automated machine is known for its small size and high productivity with a single maintaining operator.

Technical Data:

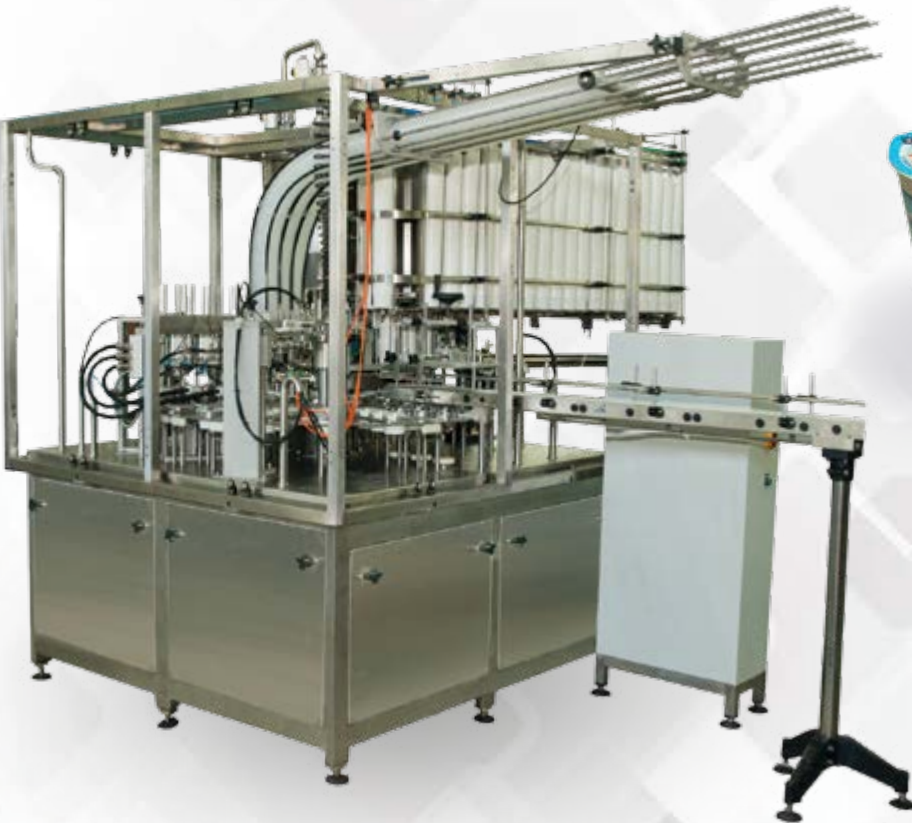
Productivity (with product)	Up to 6000 doses/p/h
Rotary drive	servounit
Overall dimensions (without conv.)	1500x1500x2800 mm
Weight	1200 kg
Voltage	380 V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	700-800 l/min

Advantages:

- Small size
- High Productivity
- 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)



6. The Four-Row Automated Machine for Packing into Plastic Cups

ADNK 39 D

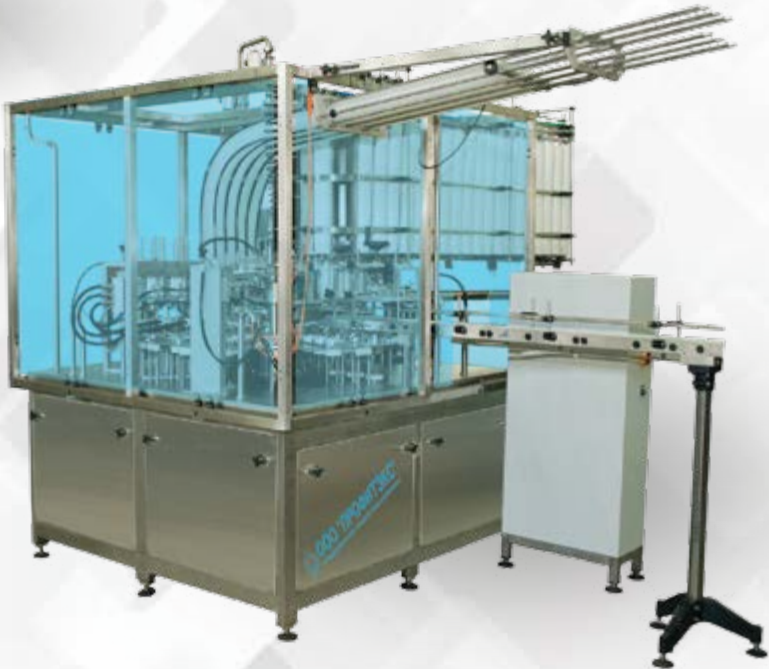
The machine is used for packing liquid and paste-like products into plastic cups of different forms, with die-cut sealing made of Walkild or foil, and capping with a plastic cap. The four-row automated machine is known for its small size and high productivity with a single maintaining operator.

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 1 200 mm (rotary)	



7. The Two-Row – Two Rotary Automated Machine for Packing into Plastic Cups

ADNK 39 D

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 two-row – two-rotary automated machine is known for its small size and high productivity with a single maintaining operator.

Advantages:

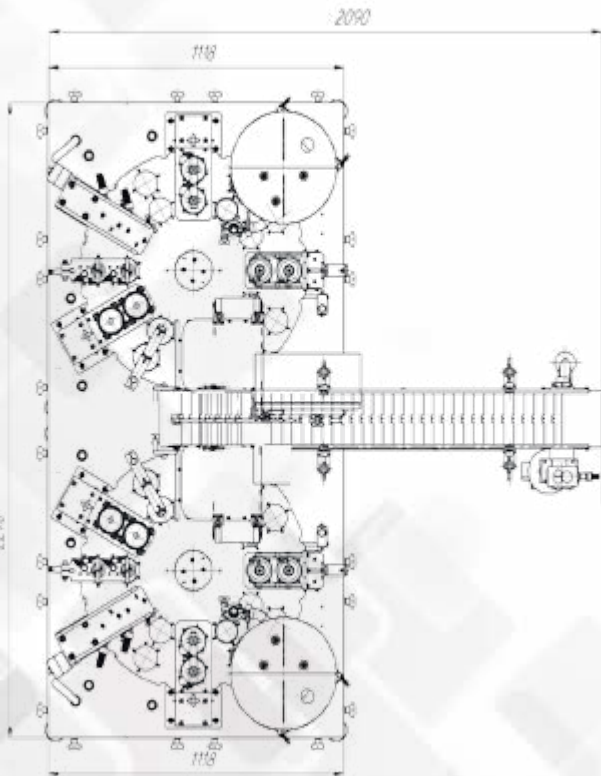
- Small size
- High productivity
- A high quality of die-cut sealing (a spiral pipe heating element)
- Vacuum balancer (against buckling)

Extra options:

- Connection to the CIP cleaner
- Automated cup feeding
- The CLEAN cleaning system
- The accumulation table 1 200 mm (rotary)

Technical Data:

Productivity (with product):	
• Electromechanical	- up to 7200 doses/p/h
• Servounit	- up to 8000 doses/p/h
Overall dimensions	see config.
Weight	1600 kg
Voltage	380V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	700-800 l/min



8. The Automated Machine for Packing Curds into Plastic Cups

ADNK 39M

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



9. The Automated Machine for Packing Cottage Cheese into Plastic Cups

ADNK 39M

The automated machine is used for packing cottage cheese into plastic cups and containers of different forms, with die-cut sealing made of Walkild 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



10.The Automated Machine for Packing into Buckets

ADNK 39 B

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
• Servounit	- 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



11.The Automated Machine for Packing Ice-cream into Plastic Cups, Waffle Cones

ADNK 39-01

The machine is used for packing desserts into waffle cones. A dessert is a multi-component product, and thus the machine is always designed according to individual parameters. The machine first covers the waffle inside with chocolate, then it packs curds with pieces of fruits, and covers it with chocolate glaze.

Advantages:	
Reliability	
Ease of operation	
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	950x950x1800 mm
Weight	330 kg
Voltage	220V, 50 Hz
Power consumption	less than 3 kW
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min



12. The Automated Machine for Packing Three-Component Products into Plastic Cups

ADNK 39 P-03

The machine is used for packing three-component products into plastic cups of different forms with die-cut sealing and capping with a plastic cap.

1. Dry goods (cookie)
2. Paste-like products (jam)
3. Liquid products (whipped cream)

Technical Data:

Productivity	up to 1200 doses/p/h
Voltage	220V, 50 Hz
Power consumption	less than 2 kW
Pressure	0,6 MPa
Compressed air consumption	250-300 l/min

Extra options:

Interchangeable set
(for switching to a different cup size and form)
Conveyor
(length—according to customer requirements, from 1 m and larger)



13. The Automated Machine for Lamister Packaging

ADNK 39L

The automated machine is used for packing meat, fish paste, patisserie, baby food, and condensed milk into lamister cups. Lamister is a multi-component packaging material made of aluminum foil with polypropylene covering, used for producing semi-rigid cannery.

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 (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	900x850x1800 mm
Weight	230 kg
Voltage	220V, 50 Hz
Power consumption	less than 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 feeding box (up to 120 liters) with a screw conveyor and heating



14.14 The Automated Machine for Packing Dry-Goods into Plastic Cups

ADNK 39 C

The machine is used for packing different multi-component dry goods (fast food), mashed potatoes, instant porridge (with different flavor), foods (peanut, sunflower seeds), and nonfood products (barium sulfate, various powder) into plastic cups of different forms with die-cut sealing and capping with a plastic lid. If required, the automated machine can be equipped with up to three applicators for every product type. The machine is made according to customer requirements.

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 (with product):
• Pneumatic drive - up to 1500 doses/p/h
• Electromechanical drive - up to 1800 doses/p/h
• Servonit - up to 2000 doses/p/h
Overall dimensions 900x850x1800 mm
Weight 230 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:

Interchangeable set
The capping station



Vertical Automated Packaging Machines

1. 1 The Automated Machine for Packing into Polyethylene Bags

ADNK 39P

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

Extra options:

Connection to the CIP cleaner
The Clean cleaning system



Multi-Packing Machine

1. The Tray-box Former

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.



2. The Bundler and the Palletizer for Tray-Boxes

Technical Data:

Productivity	up to 1500 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



3. Multi-Packing of Bottles into Tape with Shrinking

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

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



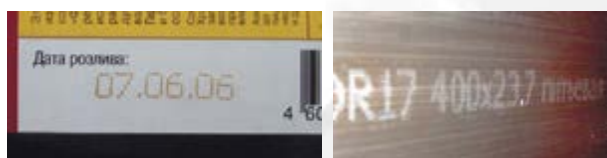
Marking and Labelling Machines

1. The laser marker for putting a date
2. The labelling automated machine for stamping self-adhesive labels



1. The 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

2. The Automated Labelling Machine for Stamping Self-Adhesive Labels

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



Technical Data:

Label width	30-120 mm
Label length	30-280 mm
Reel size	inner 25 mm, outer 300 mm
Separation speed	up to 20 m/min
Dimensions	850x850x1700 mm
Display panel	two-row LED display
Working conditions	5-40 °C, 30-80 %, noncondensing
Power consumption	less than 300 W
Voltage	220 V, 50 Hz



Vacuum Machines

1. The Automated Vacuum Sealing Station for Containers

The automated vacuum sealing station for containers is used for automated sealing of plastic containers with food. For sealing, we use roll-blanked laminated polymer tape (with barrier quality). Tape can be clear or with a print. The gas injection option allows to fill the container with neutral gas after vacuuming. Thus, it is possible to prolong the expiration date, keeping the product edible without losing its quality and tastiness. For this purpose, we use special containers with high-barrier quality for maintaining the inner conditions. The modified gas conditions are used for storing curds, gar-nished meat and fish meals, semi-finished products, salads, appetizers, cooking, pastry, bread and flour products, etc. The ease of operation and the high quality of packaging make this automated machine an irreplaceable part of large and medium food industry production.

The automated vacuum sealing station is made according to customer requirements – product and packaging. The station can be coupled with other equipment and various extra options – the automated machine for packing curds, the accumulation table, the labeler for stamping self-adhesive labels, and others.



Extra options:
 The feeding and capping station
 The accumulation table 120 mm (rotary)

Advantages:
 Reliability
 Ease of operation
 High sealing quality

Technical Data:	
Productivity (four-row)	up to 1200 pieces/p/h
Productivity (two-row)	up to 600 pieces/p/h
Vacuum pump productivity	63 m/min
Pump power input	1,5 kW
Weight	480 kg
Voltage	380V, 50 Hz
Power consumption	less than 5 kW
Pressure	0,6 MPa
Compressed air consumption	700-800 l/min

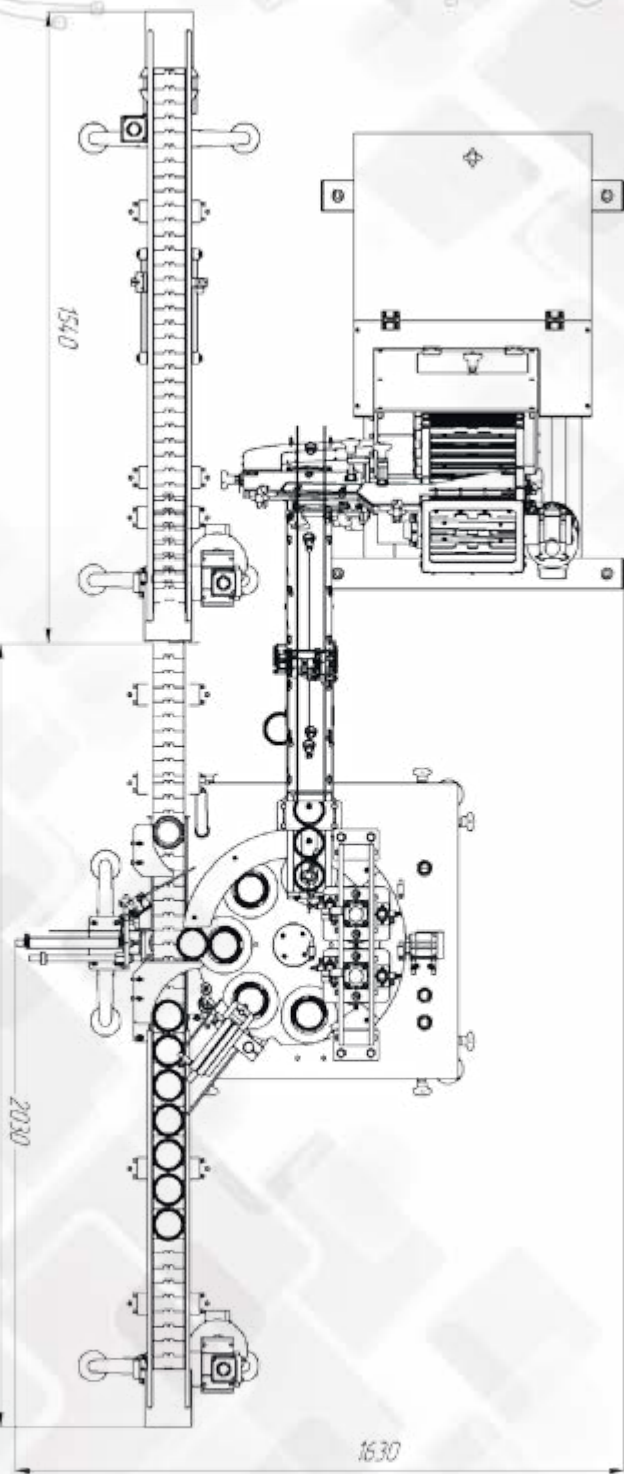
2. The Automated Machine for Twist-Off Vacuum Capping

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 self-adhesive labels on the cap or the bottom of the jar, with thermodater, or with the laser labeler for putting dates.

Technical Data:	
Productivity (vacuum)	up to 1500 pieces/p/h
Number of vacuum twisters	2
Overall dimensions	see config.
Weight	520 kg
Voltage	220V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	500 l/min

Advantages:
 Reliability
 Ease of operation
 High vacuum quality

Extra options:
 The Clean cleaning system
 The accumulation table 1200 mm (rotary)



Cleaning Machines

1. Bottle Rinsing Machine

The rinsing machine is used for rinsing new glass and PET bottles (jars) by washing their inside surface for eliminating strippable impurity that is not hard-sealed to the surface.

Technical Data:

Productivity (one-row)	up to 1500 bottles/p/h
Productivity (two-row)	up to 3000 bottles/p/h
Weight	420 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 washing quality



2. The 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 technologists.



Semi-Automated Machines

1. The semi-automated machine for packing into bottles
2. The semi-automated machine for packing into plastic cups
3. The semi-automated machine for tape sealing
4. The semi-automated machine for foil sealing of plastic cups



1. The Semi-Automated Machine for Packing into Bottles

ADNK 19y17

The semi-automated machine is used for bottling milk, kefir into PET and glass bottles with capping. The semi-automated machine can have extra equipment - the labeler for stamping self-adhesive labels on bottles; the thermostat for stamping.

Technical Data:

Productivity (with product)	up to 800 doses/
p/h	
Overall dimensions	750x420x1500 mm
Weight	70 kg
Voltage	220V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	250 l/min

Advantages:

Reliability
Ease of operation
Small size



2. The Semi-Automated Machine for Packing into Plastic Cups

ADNK 19у14

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)



3. The Semi-Automated Machine for Tape Sealing

ADNK 19у 18

The semi-automated machine is used for sealing plastic containers. For sealing, we use roll-blanked laminated polymer tape (with barrier quality). Tape can be clear or with a print. The gas injection option allows to fill the container with neutral gas after vacuuming.

Advantages:

- Reliability
- Ease of operation
- High sealing quality

Extra options:

- Neutral gas injection nozzle
- Automated tape reeling

Technical Data:

Productivity (with product)	up to 600 doses/p/h
Die-cut sealing time	1,5-2 sec
Overall dimensions	600x400x490 mm
Weight	480 kg
Voltage	220V, 50 Hz
Power consumption	less than 1,2 kW
Pressure	0,6 MPa
Compressed air consumption	50 l/min



4. The Semi-Automated Machine for Foil Sealing of Plastic Cups

ADNK 19y 12

Technical Data:

Operation mode	semi-automatic
Die-cut sealing time	1-1,5 sec
Productivity	up to 600 packs/p/h
Running time	8 hours
Nominal voltage	50 Hz
Power consumption	less than 1 kW
Heating temperature	0-300 C
Nominal working pressure	0,6 MPa
Overall dimensions	380x500x410 mm



Accessory Machines

1. Conveying Systems
2. Accumulation Tables
3. The Blending Station
4. Containers



1. Conveying Systems

We produce conveying systems with a wide range of use in different industries. It is possible to provide a conveying system made according to special customer product requirements.



2. Accumulation Tables

Accumulation tables are used for accommodating ready product coming from the main equipment for further packing and shipping.



3. The Blending Station

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

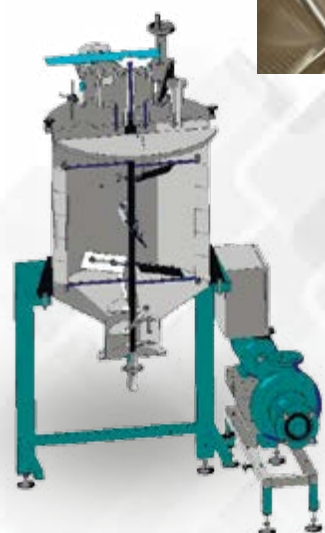
The Blending Station is used for proportional blending of various liquid products and feeding the ready product into the accumulation container of the measuring automated machine.



4. Containers

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 hand-operated blender with slicers. Vertical slices are made by a cutter that is hand-operated for moving up and down within the container.



BioPishcheMash
The Engineering Centre

Equipment for Storing and Processing Agricultural Products
(499) 237-0383, (915) 367-4230, (903) 590-1871 | bpm@vniimi.org | www.bpm.vniimi.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, KIPA (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. Planifier
- Gas-tubing (whipping). Ozonation
- 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;
www.bpm.vniimi.org; www.bpm@vniimi.org

Recirculation device for air filtration

Photocatalytic filter is located inside the machine for packing dairy products. The sterilization of the atmosphere inside the packing machine is possible due to catalytic disinfection and complete oxidation of all the microorganisms containing in the air: viruses, bacteria, fungi, etc.

The process of sterilization is the following: air is pumped (filtered) through a photocatalytic element on the surface of which all the microorganisms are neutralized and oxidized on the photocatalyst to gaseous CO₂ and H₂O. It happens under the influence of a UV-radiation which is safe for people. The patented photocatalytic filtration element consists of chemically inert and harmless materials: sintered quartz glass and titanium dioxide. A set of UV light emitting diodes of high light power is applied as a source of radiation.

The source of UV radiation does not contain mercury and is absolutely safe for people. And there's no any ozon during the operational period of this filter. The service life of the UV LED source is 5-10 times longer than that of conventional mercury UV lamps. Powerful LEDs allow to get light flux of high power and density. The output of disinfection recirculation device is 1-2 cubic meters of pure air per minute.

Needed facilities: Voltage - 220 V,

Power consumption - no more than 100 W (it depends on the total power of the air blower and LEDs).



Sanitizers

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 white-wash 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.



We have installed more than 1 000 machines.

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Moldova
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ALPES

INDUSTRIES SERVICES INTERNATIONAL LTD

JAFZA ONE Tower A, Office 1214-1215 - Jebel Ali Free Zone - PO BOX 61136 - DUBAI - U.A.E.
Email : ais@alpes-is.com - Internet : alpes-is.com



Address: 67, Kochubeya Str., 357528, Pyatigorsk, Russia
Phone: +7 8793 989 432

Sales department in Moscow:
Lyusinovskaya Str., 35, 115093, Moscow, Russia
phone: +7 962 439 38 06

www.profitexglobal.com,
e-mail: profitex@profitex.ru
The sales department e-mail:
sales@profitex.ru