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 owes 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.
Linear Type Packaging Machines
1. The PURE-PACK Bag Packaging Station  
2. Triblock Packaging Station  
3. The Bucket Packaging Station  
4. The Bottle Packaging Station  
5. The Four-Row Automated Machine for Packing into Plastic Cups  
6. The Sauerkraut Packaging Station  

Rotary Type Packaging Machines
1. The Automated Machine for Packing into a Bottle, Can, or a Pot  
2. The Automated Machine for Packing Carbonated Airan  
3. The Automated Machine for Packing Products into Briquette  
4. The Automated Machine for Packing Five-Component Products into Plastic Cups  
5. The Automated Machine for Packing into a Glass Bottle, Pot  
6. The One-Row Automated Machine for Packing into Plastic Cups  
7. The Two-Row Automated Machine for Packing into Plastic Cups  
8. The Three-Row Automated Machine for Packing into Plastic Cups  
9. The Four-Row Automated Machine for Packing into Plastic Cups  
10. The Two-Row – Two Rotary Automated Machine for Packing into Plastic Cups  
11. The Automated Machine for Packing Curds into Plastic Cups  
12. The Automated Machine for Packing Cottage Cheese into Plastic Cups  
13. The Automated Machine for Packing into Buckets  
14. The Automated Machine for Packing Ice-cream into Plastic Cups, Waffle Cones  
15. The Automated Machine for Lamister Packaging  

Vertical Automated Packaging Machines
1. The Automated Machine for Packing into Polyethylene Bags  
2. The Automated Machine for Packing into Polyethylene Bags  
3. The Automated Machine for Packing Cottage Cheese into Bags  
4. The Automated Machine for Packing Dry-Goods into Bags  

Multi-Packing Machines
1. Multi-Packing of Bottles into Tape with Shrinking  
2. The Tray-box Former, the Bundler and the Palletizer for Tray-Boxes  

Marking and Labelling Machines
1. The Laser Marker for Putting a Date  
2. The Automated Labelling Machine  

Vacuum Machines
1. The Automated Vacuum Sealing Station for Containers  
2. The Automated Machine for Twist-Off Vacuum Capping  

Packing Complex Machines
1. The PURE-PACK Bag Packing Complex Machine  
2. Packing Complex Machine into Plastic Cups  
3. Packing Complex Machine into PET Pot  
4. The Semi-Automated Machine for Packing into Bottles  
5. The Semi-Automated Machine for Packing into Plastic Cups  
6. The Semi-Automated Machine for Tape Sealing  
7. The Semi-Automated Machine for Foil Sealing of Plastic Cups  

Accessory Machines
1. Conveying Systems  
2. Accumulation Tables  
3. The CLP Station for the Local Washing of the Packaging Machines  
4. The Blending Station  
5. Containers  
6. Air Cleaning Machine  

The Disinfecting Solution BIOPAG-D  
Stainless Steel Enclosures  
Food Packaging
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 А и Б. The assortment includes: milk, cream, kefir, fermented backed milk (ryazhenka), sour cream, yoghurts with pieces of fruits, juices, and wine.

Extra options:
- The ultrasonic applicator for sealing
- Thermodater
- Connection to the CIP-cleaner
- The CLEAN cleaning system
- The local cleaning station

Advantages:
- Quick reconfigurability for a different bag volume
- Ease of operation

Technical Data:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kinematic capacity</td>
<td>up to 3000 bags per hour</td>
</tr>
<tr>
<td>Voltage</td>
<td>380/220 V, 50 Hz</td>
</tr>
<tr>
<td>Electric line and block system voltage</td>
<td>24 V</td>
</tr>
<tr>
<td>Total capacity</td>
<td>up to 26 kW</td>
</tr>
<tr>
<td>Air pressure</td>
<td>0.6-0.8 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>less than 900 l/min</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>3200x2700x1200 mm</td>
</tr>
</tbody>
</table>
2. 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.

**Technical Data:**

<table>
<thead>
<tr>
<th>Productivity with product:</th>
<th>up to 2400 doses/p/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric drive</td>
<td>up to 3000 doses/p/h</td>
</tr>
<tr>
<td>Servounit</td>
<td>1250 kg</td>
</tr>
<tr>
<td>Weight</td>
<td>1104х2500х5200 mm</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>220 V, 50 Hz</td>
</tr>
<tr>
<td>Voltage</td>
<td>less than 1,2 kW</td>
</tr>
<tr>
<td>Power consumption</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>1000 l/min</td>
</tr>
</tbody>
</table>

ADNK 39 LR 3
3. The 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:
The capacity of the station is up to 1 000 buckets per hour.
Pneumatic equipment Camozzi
Electric equipment Omron
4. The 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:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Up to 3000 bottles/h</td>
</tr>
<tr>
<td>Measuring methods</td>
<td>- by volume</td>
</tr>
<tr>
<td></td>
<td>- by level</td>
</tr>
<tr>
<td></td>
<td>- by time</td>
</tr>
<tr>
<td>Voltage</td>
<td>220 V 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>less than 2.5 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>less than 250-300 l/min</td>
</tr>
</tbody>
</table>
5. 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 Walkilid, 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 cup feeding and capping unit (from pile)
10. The control center (a touch-sensitive monitor)
11. The controller (Omron, Japan)
12. 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
- 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)
6. 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.

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

Technical Data:
- The working capacity: up to 1,300 doses/h
- Voltage: 220 V, 50 Hz.
- Power consumption: less than 1.5 kW
- Pressure: 0.6 MPa
- Compressed air consumption: 400 l/min
1. The Automated Machine for Packing into a Bottle, Can, or a Pot

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:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity with product</td>
<td>up to 2000 packs/h</td>
</tr>
<tr>
<td>Rotary driver</td>
<td>servounit</td>
</tr>
<tr>
<td>Weight</td>
<td>460 kg</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>900x850x1900 mm</td>
</tr>
<tr>
<td>Power consumption</td>
<td>less than 1.2 kW</td>
</tr>
<tr>
<td>Voltage</td>
<td>220 V, 50 Hz.</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>250-300 l/min</td>
</tr>
</tbody>
</table>

**Extra options:**
- Bacterial treatment tunnel
- Barrier
- Interchangeable set
- Conveyor

ADNK 19 LR PET
2. The 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.

Technical Data:
- Productivity with product: up to 1800 packs/h
- Weight: 460 kg
- Power consumption: less than 1.2 kW
- Voltage: 220 V, 50 Hz.
- Pressure: 0.6 MPa
- Compressed air consumption: 250-300 l/min

Extra options:
- Bacterial treatment tunnel
- Barrier
- Interchangeable set
- Conveyor

ADNK 19 LR
3. The 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 2000 doses/h
- Voltage: 220V, 50 Hz
- Power consumption: 1 kW
- Pressure: 0.6 MPa
- Compressed air consumption: 500 l/min
- Briquette weight: up to 250 gr
- Briquette size: 100 x 75 x 37 mm

**Advantages:**
- Small size
- Reliability
- Ease of control

ADNK 39 B
The machine is used for packing five-component products into plastic cups of different forms with die-cut sealing and capping with a plastic cap.

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

**Technical Data:**
- Productivity: up to 1800 doses/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)
5. The 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/h
- Weight: 460 kg
- Overall dimensions: 900x850x1900 mm
- Voltage: 220V, 50 Hz
- Power consumption less than 1.2 kW
- Pressure: 0.6 MPa
- Compressed air consumption: 250-300 l/min
6. The 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.

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

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
7. The 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 Walkilid 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)
8. The Three-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 Walkillid 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.

**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 1 200 mm (rotary)

**Technical Data:**
- Productivity (with product): Up to 6000 doses/p/h
- Rotary drive: servounit
- Overall dimensions (without conveyor): 1500x1 500x2800 mm
- Weight: 1 200 kg
- Voltage: 380 V, 50 Hz
- Power consumption: less than 2 kW
- Pressure: 0.6 MPa
- Compressed air consumption: 700-800 l/min

ADNK 39D-3
9. The 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 Walkillid 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/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)
10. The Two-Row – Two Rotary 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 Walkillid 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.

Extra options:
- Connection to the CIP cleaner
- Automated cup feeding
- The CLEAN deaning system
- The accumulation table 1200 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

Advantages:
- Small size
- High productivity
- A high quality of die-cut sealing (a spiral pipe heating element)
- Vacuum balancer (against buckling)
11. The 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
• Servoulit - 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

ADNK 39 T-K
12. The 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 Walkilid 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
13. The Automated Machine for Packing into Buckets

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

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/h
- Electromechanical drive - up to 1800 doses/h
- Servounit - up to 2000 doses/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

ADNK 39 M
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

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
- 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 250-300 l/min

Extra options:
Interchangeable set
The capping station

ADNK 39 S
1. The 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
2. The 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 5000 doses p/h
- Measuring method: by volume
- Overall dimensions: 2560x1000x2600 mm
- Weight: 900 kg
- Voltage: 380V, 50 Hz
- Power consumption: less than 6 kW
- Pressure: 0.6 MPa
- Compressed air consumption: 1000 l/min

ADNV 39 P2
3. The 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:**

<table>
<thead>
<tr>
<th>Productivity</th>
<th>up to 20 doses p/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall dimensions</td>
<td>1560x950x2600 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>600 kg</td>
</tr>
<tr>
<td>Voltage</td>
<td>380/220V, 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>500 L/min</td>
</tr>
</tbody>
</table>
4. The 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

**Technical Data:**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity</td>
<td>up to 40 doses p/min</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>1560x950x2600 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>600 kg</td>
</tr>
<tr>
<td>Voltage</td>
<td>380/220V, 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>500 l/min</td>
</tr>
</tbody>
</table>
1. 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.

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

ADNK 39 GUP
2. The 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:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity</td>
<td>up to 1500 doses p/h</td>
</tr>
<tr>
<td>Overall dimensions (without conveyor)</td>
<td>6000x1000x2500 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>650 kg</td>
</tr>
<tr>
<td>Voltage</td>
<td>220V, 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>less than 1.2 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>350 l/min</td>
</tr>
</tbody>
</table>

ADNK 39 F

ADNK 39 GUT
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 cleanliness 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:

<table>
<thead>
<tr>
<th>Type</th>
<th>CO2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiator power</td>
<td>10/40 W</td>
</tr>
<tr>
<td>Speed</td>
<td>100 sym/sec</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>220x160x700 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>15 kg</td>
</tr>
<tr>
<td>Power consumption</td>
<td>500 W</td>
</tr>
</tbody>
</table>
2. The 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 3000 labels p/h
- **Label width:** 30 - 120 mm
- **Label length:** 300 - 350 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 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:**
- **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
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 editable 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, garnished 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.

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

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

Advantages:
- Reliability
- Ease of operation
- High vacuum quality

Extra options:
The Clean cleaning system
The accumulation table 1800 mm (rotary)

Technical Data:

<table>
<thead>
<tr>
<th>Productivity (vacuum)</th>
<th>up to 1500 pieces/h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of vacuum twisters</td>
<td>2</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>see config.</td>
</tr>
<tr>
<td>Weight</td>
<td>520 kg</td>
</tr>
<tr>
<td>Voltage</td>
<td>220V, 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>less than 1.2 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>500 l/min</td>
</tr>
</tbody>
</table>
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

Complex includes:
- The PURE-PACK Bag Packaging Station ADNK 39 P-P
- CIP Station for Local Washing of the Packaging machines ADNK 19 CIP
- Multi-Packing of Bottles into Tape with Shrinking ADNK 39 GUP
2. Packing Complex Machine 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 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:
- Kinematic capacity: up to 8000 bags per hour
- Voltage: 380 V, 50 Hz
- Air pressure: 0.6-0.8 MPa

Complex includes:
- Four-Row Automated Machine into Plastic Cups
- The Tray-Box Former
- The Bundler and the Palletizer for TrayBoxes
- Conveying Systems
- Accumulation for Tray-Boxes

ADNK 39 D-4
ADNK 39 F
ADNK 39 GUT
ADNK 19 TR
ADNK 39 N
3. Packing Complex Machine into PET Pot

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 closed 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 closed 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 platinka 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 platinka into the platinki division;
   - a unit for automatic reloading of covers into a node for dividing and laying covers

ADNK 39 D-5L
1. The Semi-Automated Machine for Packing into Bottles

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 thermodater for stamping.

**Advantages:**
- Reliability
- Ease of operation
- Small size

**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

2. The 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)
3. The Semi-Automated Machine for Tape Sealing

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.

<table>
<thead>
<tr>
<th>Technical Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity (with product)</td>
</tr>
<tr>
<td>Die-cut sealing time</td>
</tr>
<tr>
<td>Overall dimensions</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Voltage</td>
</tr>
<tr>
<td>Power consumption</td>
</tr>
<tr>
<td>Pressure</td>
</tr>
<tr>
<td>Compressed air consumption</td>
</tr>
</tbody>
</table>

ADNK 19U18

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

<table>
<thead>
<tr>
<th>Technical Data:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation mode</td>
</tr>
<tr>
<td>Die-cut sealing time</td>
</tr>
<tr>
<td>Productivity</td>
</tr>
<tr>
<td>Running time</td>
</tr>
<tr>
<td>Nominal voltage</td>
</tr>
<tr>
<td>Power consumption</td>
</tr>
<tr>
<td>Heating temperature</td>
</tr>
<tr>
<td>Nominal working pressure</td>
</tr>
<tr>
<td>Overall dimensions</td>
</tr>
</tbody>
</table>
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 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.

4. The Blending Station

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.

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

**Technical Data:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Productivity</td>
<td>up to 3000 liters/h</td>
</tr>
<tr>
<td>Overall dimensions</td>
<td>2900x1900x2910 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>650 kg</td>
</tr>
<tr>
<td>Voltage</td>
<td>380V, 50 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>less than 5 kW</td>
</tr>
<tr>
<td>Pressure</td>
<td>0.6 MPa</td>
</tr>
<tr>
<td>Compressed air consumption</td>
<td>less than 150 l/min</td>
</tr>
</tbody>
</table>

ADNK 19 CIP

ADNK 19 SSP
5. 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.
6. 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 CO2 and H2O.

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).

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.
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
Food Packaging
The Packaging Factory MILK

The Packaging Factory MILK – is a new production center designed, built, and launched by the specialists of the Prezent Upakovka company in 2010.

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.

The Packaging Factory MILK – is located 147 kilometers (MKAD, M2) from Moscow that takes only an hour and a half to reach without traffic jams.

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

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.

We care about our clients. We take responsibility. These all made us a number-one producer on the market. That is why more than 300 companies in Russia and abroad have become our customers. They all know that we provide quality product and deliver in time. It is the responsibility that constantly motivates us to introduce up-to-date technology, improve quality, and to share the experience with our partners. We set goals and are always determined to achieve them and go beyond.

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+7 (800) 250-51-16 (multi-channel)
www.milkpack.ru
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 BioPischcheMash 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. Plantsifter
- Gas-tubing (whipping). Ozonation
- Micro-, Ultra-, Nano-filtration
- Concentration. Drying. Baking
- Disinfection. Cleaning. UV-, and IR treatment

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
- Dryers 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

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