

ALPES INDUSTRIES SERVICES INTERNATIONAL PROFITEX Machinery plant



ADNV 39 P Pouch Filling Machine Machine presentation

***NOTE!** Machine on pictures are in basic configuration. Please check the offers with all technical details.



Pouch Filling Machine ADNV 39P is a vertical type automatic machine (molding-filling-sealing) designed for filling liquid and pasty products in bags (pouches) from PE film. It folds the packaging film into a sleeve around the filler pipe, fills and seals the bags formed in this way, and then dumps them onto the bagging conveyor, which transports the bags for further packaging.

It is a packaging machine with a programmable logic controller (PLC). The machine can be single-head or double-head. Machine manufactured in the “U” version (for moderate climates), permission category 5 according to GOST 15150-69, operating temperature range from + 10 ° C to + 35 ° C and relative air humidity up to 85% at a temperature of + 25 ° C

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1. SPECIFICATIONS

Name	Product Feature
Dosing method	Time batcher
Dose adjustment, ml	250-1000
Time of continuous work, h / day	8
Power consumption kW	3
Rated voltage, V	220
Frequency of consumed current, Hz	50
Section of a copper wire of a power line, mm ²	2,5
Supply voltage of control circuits and interlocks, V	24
Electrical protection class	IP56
Nominal working pressure, MPa, (kgf / cm ²)	6
Compressed air consumption, l / min	400 ¹
Air supply	polypropylene, metal-reinforced plastic pipe with an internal diameter of at least 12mm. Connecting element with male thread G1/2
Length mm	1330
Width mm	1000
Height mm	2700



2. MACHINE DESIGN AND FUNCTIONS

1. The machine consists of units, each of which performs special functions for packing and forming a bag from a film.

2. The basic unit that determines the design of the product is the machine body on which all structural elements are located.

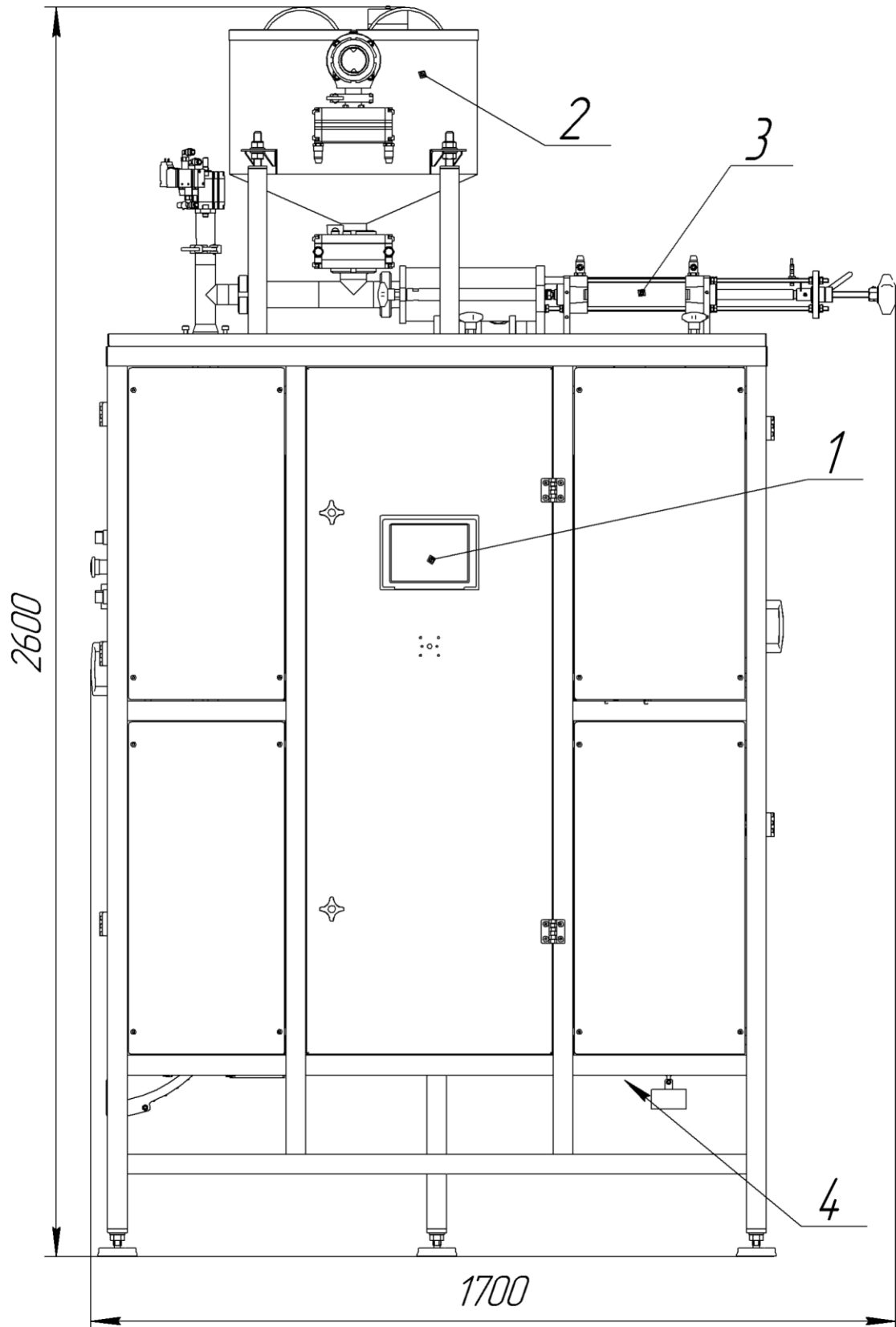
3. Basic complete set with units, which the product can be equipped with:

- Dispenser.
- Unit for unwinding film.
- Sleeve forming unit.
- Sealing unit vertical.
- Sealing unit horizontal.
- Film supply unit.

4. The product performs the following technological operations:

- Delivers the product from the container to the product delivery unit.
- The film is being fed into the machine.
- Forms a sleeve.
- Seals the sleeve vertically.
- Dispenses the required portion of the product.
- Seals the sleeve horizontally.

Machine general view

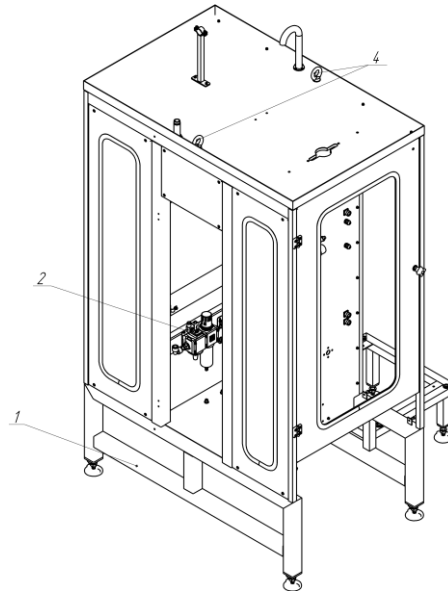


3. STRUCTURE AND UNITS WORKING PRINCIPLE

1. Frame.

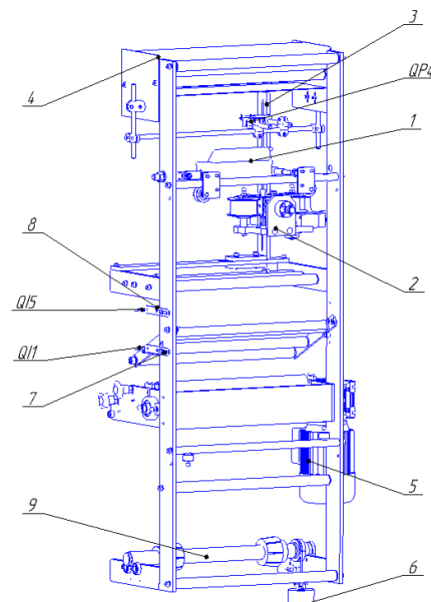


The frame with pneumatic equipment is the basis of the entire product. Frame consists of a welded base (pos.1), and placed inside a pneumatic, switching and executive equipment. On the frame and special parts located: air preparation unit, pneumatic valve block and control valves.



2. Film supply unit.

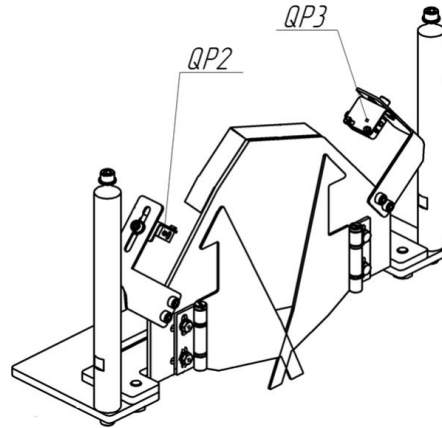
The film supply unit is designed to unwind the film from the roll (item 9). Stamping the date on the canvas of the plastic film using a device of the appropriate knot (item 2), and also centers the fabric before forming it into a sleeve when using the actuator (item 1). The unit is equipped with a UV lamp (item 4) for processing the film passing through it.





3. Collar.

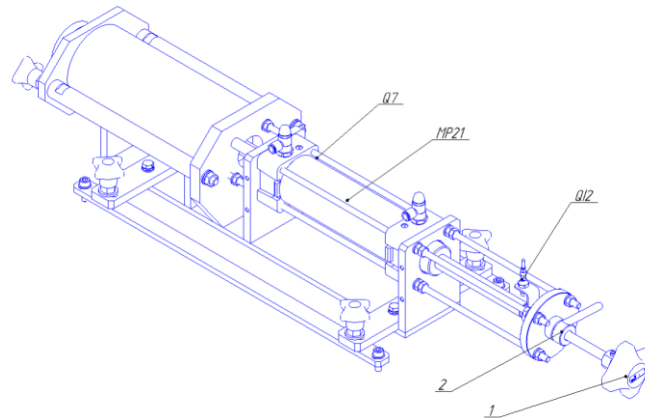
The unit is used to form a sleeve from a polymer film.



4. Dispenser with valve block.

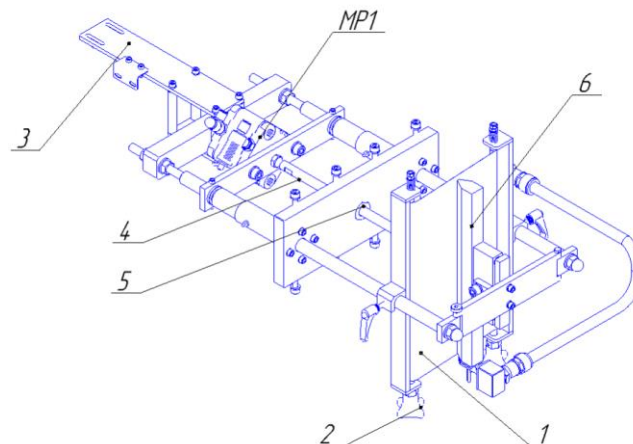
The dispenser doses calculated portion of the product into the glass.

Dispenser type - piston. When the piston moves, the dispenser sleeve is filled with a given portion of the product.



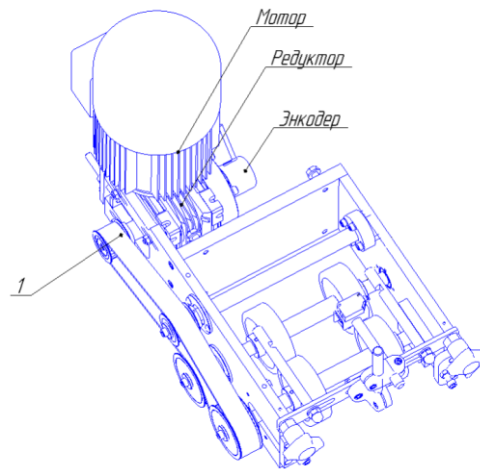
5. Vertical sealer.

The unit performs vertical crosslinking of the polymer film, heating the film to the desired temperature with an iron, which is structurally executed vertically. As a result, the sleeve is formed.



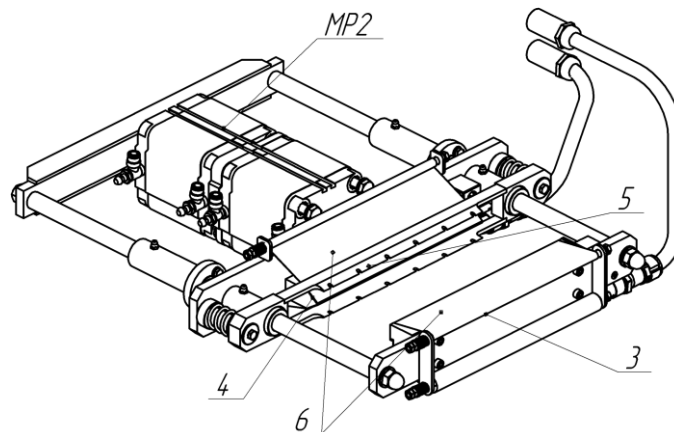
6. Film supply unit.

The unit is driven by the engine with belt drive. The functional accessory of this unit is to provide broaching of the “sleeve” to the next technological operation.



7. Horizontal sealing unit.

The unit is designed for horizontal sealing of the polymer film with subsequent cutting, thereby forming a package.



4. PACKAGING MATERIAL.

Packaging Material used on this machine is PE Film, 3 or 5 layer, Shelf life of product up to 15 days.

PE Film Application area:

It is used for packaging milk and dairy products on filling machines in plastic bags.



Benefits:

- Is the most advantageous type of packaging in terms of price and quality and has a short production time.
- Convenience and economy of transportation.
- Ensuring the recognition of the company.

Characteristics:

It is produced in rolls weighing 20-25 kg, which are wound on a cardboard spool with internal diameter 76 mm.

Web width – 320 mm

Film thickness: 0.080 - 0.090 microns

High quality printing up to 8 colors

The table below provides information on film consumption depending on the volume of the package.

Volume of pack (ml)	Weight of PE film (gr)	Production (pcs per 1 kg)
200	2.8	414
250	3	387
500	4.5	258
1000	7	166



5. SINGLE-HEAD MACHINE TECHNICAL DETAILS.



*NOTE! Machine on picture is in basic configuration. Please check the offers with all technical details.

Technical Details.

- Kinematic productivity up to 3000 doses / hour*
- Overall dimensions 1560x950x2600 mm
- Weight 460 kg
- Voltage 220 V, 50 Hz
- Power consumption no more than 2 kW
- Pressure 0.6 MPa
- Compressed air consumption 500 l / min

Advantages.

- Reliability
- Easy to maintain
- High quality sealing

Options.

- CIP connection
- Cleaning system “Clean”
- Conveyor system and group packaging
- Data Labelling

*for 200 ml pouches.

6. DOUBLE-HEAD MACHINE TECHNICAL DETAILS.



*NOTE! Machine on picture is in basic configuration. Please check the offers with all technical details.

Technical Details.

- Productivity 3000 doses / hour*
- Overall dimensions 2560x1000x2600 mm
- Weight 900 kg
- Voltage 380 V, 50 Hz
- Power consumption no more than 6 kW
- Pressure 0.6 MPa
- Compressed air consumption 1000 l / min

Advantages.

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

Options.

- CIP connection
- Cleaning system “Clean”
- Conveyor system and group packaging
- Data Labelling

*for 200 ml pouches.

ADNV 39 P Pouch Filling Machine - the best solution for packaging dairy products in PE Film!



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Video of machine: <https://www.youtube.com/watch?v=5p8khfnPk5I>

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