



AISD Co.



Portable Milking Machines

Introduction of the company

Agricultural Industries and Services Development Company (public shares) as the oldest and only listed company producing and supplying livestock equipment in Iran is proud to be the first manufacturer of portable milking machines with a standard mark.

Extensive cooperation with livestock farms to provide the necessary equipment and after-sales service and 24-hour maintenance is the pride of our experts in the agricultural industry and services expansion company in the company's 36 years of experience.



AISD CO.





Milking machine for goats and sheep

During the 36 years of history of production and supply of milking machines, the expansion of agricultural industries and services company has always been a leader and innovator in the dairy industry and alongside the farmers, and now, by producing and supplying fixed and portable milking machines for sheep and goats, it responds to the needs of a large sector. He is a rancher. Undoubtedly, sheep and goat milk with different quality and higher percentage of fat and protein has a more favorable market than cow's milk and makes sheep and goat breeding units economical and profitable.



Portable milking machines are flexible and easy to transport, and can be easily transferred in any situation with minimal single-phase electricity, and are suitable for small herds.

In terms of milking method and mechanism, the sheep and goat milking machine is equipped with special milk claw and Apex 7 electronic pulsators made by Westphalia - Serge, Germany, which can be adjusted according to the needs of sheep or goats, and it milks with full accuracy and optimal speed. These systems, while being simple, have all full milking capabilities and can be equipped with automatic receiver jacks (ACR) and pulsators for Stimo Pulse CP if desired, which is called DEMAX (30) system with steel cabinet by the company Westphalia - Serge is offered.



Type of milking machine	Milking machine model	Number of milking units	Type and capacity of milk bucket	Required voltage	Engine revolutions per minute	Electric motor power KW	Vacuum pump capacity liters per minute 50-kpa
Single	SU-GS-30/1A	1	30 liter aluminum	220 V single phase	1400	Vacuum pump capacity	170
Single	SU-GS-25/1S	1	25 liter stainless steel	220 V single phase	1400	0.75	170
Two units with bucket	DU-GS-50/2	2	50 liter aluminum	220 V single phase	1400	0.75	170
Two units, two buckets	DU-GS-2X25/2A	2	Aluminum 25*2 liters	220 V single phase	1400	0.75	170
Two units, two buckets	DU-GS-2X25/2S	2	Stainless steel 25*2 liters	220 V single phase	1400	0.75	170

The above milking machines have the ability to milk with a higher capacity by adding a milking unit.







Portable electric two-unit milking machine DU-MM-2/2x25 S

This machine is capable of milking 25 cows in each round of milking. The milked milk of each cow is collected separately, therefore mixing milk of different cows is prevented. Each unit is equipped with an independent valve and works like a single unit milking machine. This machine can be provided with stainless steel and aluminum milk containers with a capacity of 25 liters. This machine is very light and easy to operate. This machine can be provided with gasoline power according to the order and can be used in areas without electricity.





**DU-MM
2/2x25 S**





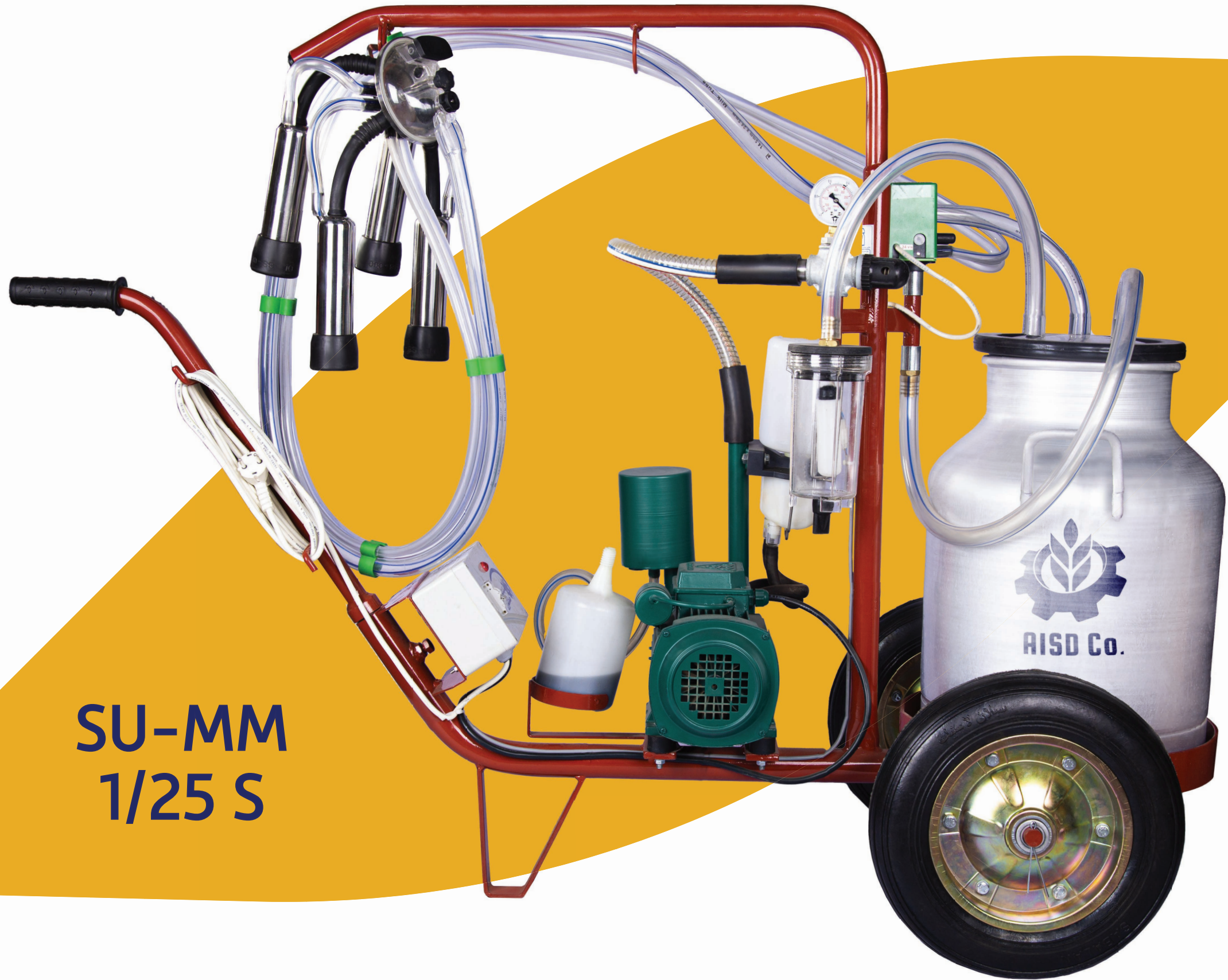
Electric single unit milking machine SU-MM-1/25 S

A small but complete milking machine with all safety equipment.

The above machine is used in small farms for milking 15 cows. It is also used in maternity hospitals and industrial cattle farms for milking newborn and sick cows. This machine is the best device for use in domestic and domestic cattle farms. This machine can be provided with stainless steel and aluminum milk container in 25 and 30 liter capacities. Its chassis can be galvanized or have an electrostatic paint coating. One of the features of this lightweight machine is its portability and ease of use.







**SU-MM
1/25 S**



Double unit gasoline milking machine DU-MM-2/50

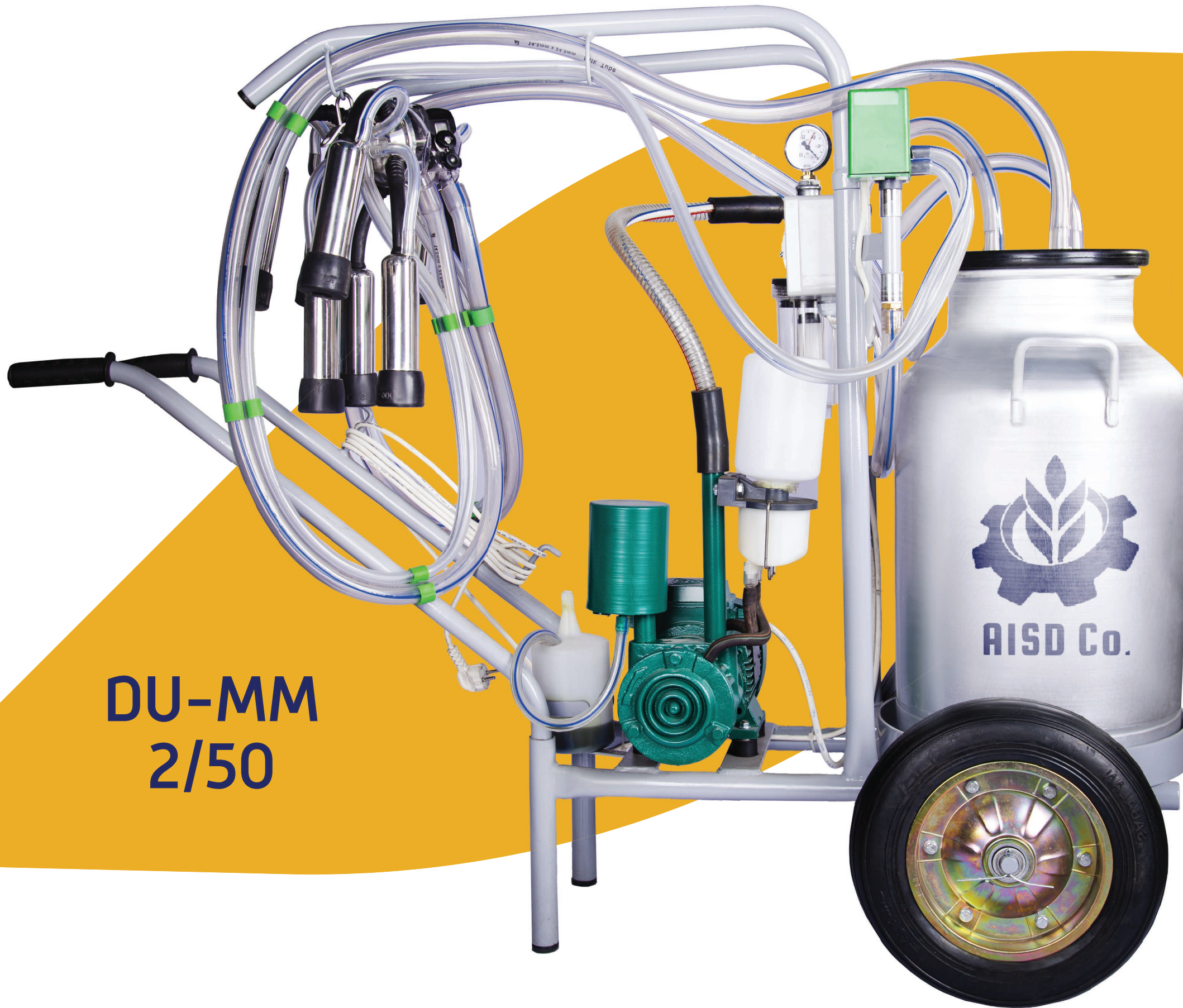
A complete machine for small cattle farms without electricity, capable of milking up to 25 cows per shift.

This machine is produced according to the order and its electric type is the best-selling shower faucet. The two-unit electric milking machine of the above type has a standard seal and is provided only with 50-liter aluminum containers. All its parts comply with ISO international standards in terms of technical specifications, raw materials and performance.

Due to its interesting design, this machine is very light and easy to move, and it is extremely easy to operate.







**DU-MM
2/50**

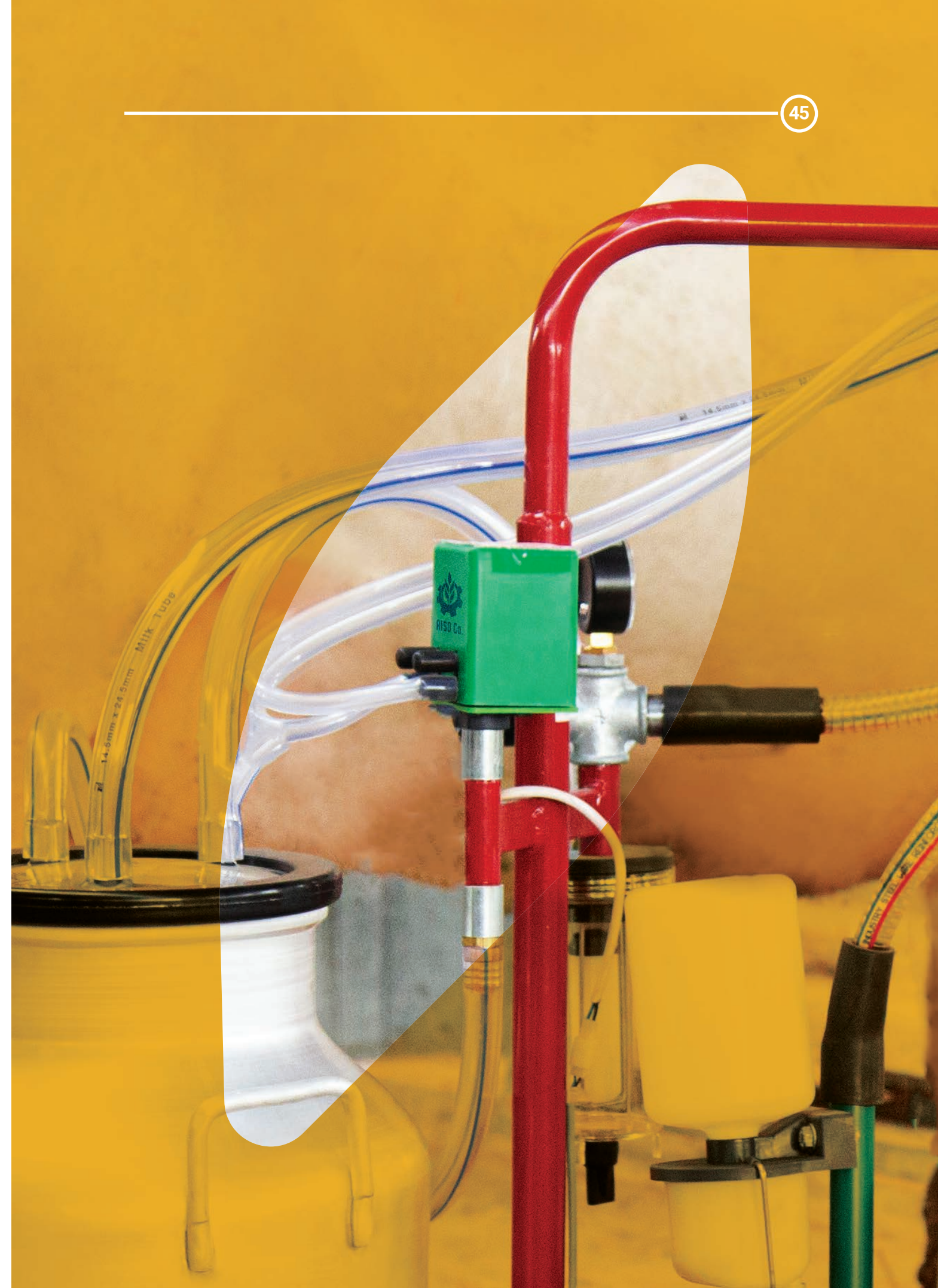
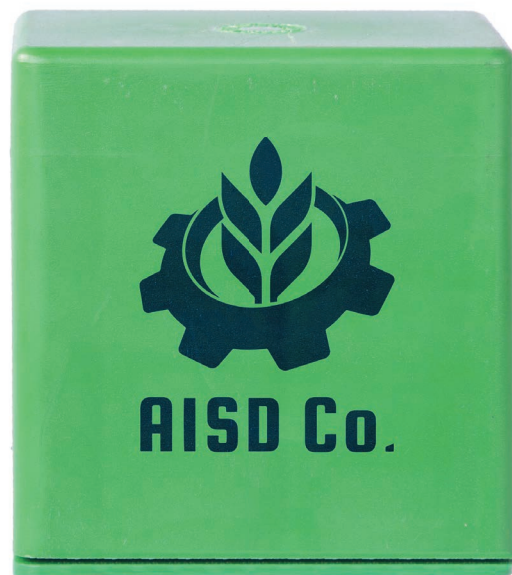




**Parts of
portable
milking
machines**

Pulsator

The pulsators used in portable milking machines can be mechanical or electronic depending on the customer's choice, both of which are available in 35/65 and 40/60 ranges for milking cows, sheep and goats. Electronic pulsators produced by this company are available in two versions. Double and single type, each with electronic control with 24V power consumption, creates a constant pulse for milking.



Milking unit

This unit is the only interface between the animal and the machine. Despite its simplicity, it plays a very effective role in the matter of uniform milking and animal health. The milking unit used in mobile machines consists of long one-piece liners, 300 cc stainless steel shells with automatic vacuum cut-off and hygienic and suitable hoses.

According to the customer's order, this unit can be provided with a 300 cc plastic or stainless steel crab, and in both types, its transparent plastic door made of polycarbonate makes it possible to see the outlet valve.



Electro vacuum pump (vacuum creation unit)

The electro-vacuum pumps produced by this company are designed in such a way that they have the lowest noise and provide the greatest possibility of creating a vacuum at the highest points.

Each electro vacuum pump consists of a special electromotor device and a coupled vacuum pump. The mechanism of these vacuum pumps can be dry (coal) or oil, in which case they are equipped with an oil pan for lubrication and a container for collecting excess oil. Both types have an exhaust muffler, which minimizes its sound. Lubrication increases the life of the pump and minimizes its repairs, but it is used in dry (coal) areas.



Long rubber milking liner

The milking liner is one of the main parts of the milking machine. Its quality is very important for both animal health and milk quality. This product is available in a pack of four (one set).

Liner replacement should be done after 2500 milkings for each liner, because the liner rubber loses its initial elasticity after this number of milkings.

It should be noted that at the time of replacement, all four liners of a milking cluster should be replaced together, and replacing some of them is not the right thing to do. Because the used liner, as mentioned before, due to the loss of its elasticity, should not be used together with the new long liner in a cluster, because it causes injury and damage to the cow's udders.



Milking shell stainless steel

For milking, the liner is placed inside a metal or plastic container. Then the vacuum enters this chamber through the air hose and the milking process takes place. Shell must have a certain weight so that the milking process can be done well. On the other hand, shell steel should be completely resistant to acid corrosion and not made of steel. It means that it will not be attracted to the magnet and will not change color over time. Any change in the appearance of the shell after contact with acid indicates the poor quality of the shell material and its short life. One of the characteristics of low-quality milking shells is rusting and then causing tears in the milking liner.



Trap

The vacuum pump is an electric part. The entry of liquids into the vacuum pump leads to failure and damage to the milking process. During milking, for various reasons, milk may enter the vacuum channel and enter the vacuum pump, causing serious damage to this expensive part. For this purpose, a device called trap or milk trap is used in the milking machine. Its task is to collect milk, water and steam during milking and washing of the milking machine. Depending on the type of milking machine, after the end of the work and when it is turned off and the vacuum is emptied, the milk or water collected in the portable milking trap will automatically come out of the trap, or the milking worker must manually remove the trapped liquids. to drain. The size of the milk trap in portable devices is small and in fixed devices with more number of milking units up to 20 liters.



Milk collection bucket

Buckets are containers that are used to collect and transfer milk in mobile milking machines. This container is made of steel and polycarbonate.

Polycarbonate bucket is graduated and usually, in cases where the farmer considers the milk has been milked, observe, or measure it. Lithium is used. Automatic bins are made in two models, simple door, and latch door, with different capabilities.

The bucket is also made and used with a capacity of 20 liters.



Milk claw

The milk claw is a part of the milking machine that is placed immediately after the milking liner and the milk from the breast enters it. In fact, the milk claw acts as the primary tank for collecting milk. The vacuum in the milking system enters the milk claw through the milking hose. It pumps the expressed milk into the milk transfer system, commonly known as the milk line. If the volume of milk claw is less than the volume of milk milked in each pulse of the pulsator, the air pressure will return the milk left in the milk claw into the breasts and lead to mastitis. The milking valve in goat and sheep milking machines replaces the usual milk claws and is easier to use. As soon as the nipple is connected with the liner, the valve activates the vacuum and milking becomes possible, and when the milking ends and the liner is separated from the nipples, the vacuum is automatically cut off and milking stops. This makes the milking process easier, especially in goat and sheep milking machines.



portable device chassis

The chassis is responsible for two tasks: 1) installing the milk shower parts on it and 2) creating a source and space for vacuum storage.

If you use pipes or light cans, this source will be punctured after a short time and the milking machine will be useless. The price of the device can be reduced by using light and low-quality tubes and sheets. The fact that the color of the chassis is painted or sprayed also affects the life of the device and its price. Furnished chassis are more expensive and more durable.





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