

## PARTS OF THE MACHINE



- 1- Chassis
- 2-Vacuum Pump and Motor
- 3-Vacuum Tank
- 4-Pulsator
- 5-Vacuum gauge
- 6-Milking Cluster
- 7-Milk Bucket

## GENERAL SAFETY INSTRUCTIONS AND WARNINGS

- The machine whose maintenance, adjustment and test has been done is ready to be used before delivery..
- Your producer has used the best raw material and equipments on the machine for the best performance and safety.
- You must use the machine as it is stated in the manual.
- The people using and maintaining the machine must read the instruction in the manual and take the training to learn how to use the machine. Don't change any part of the machine please. Otherwise, your machine may be out of warranty and may have dangerous consequences for your security.
- The machine must be stopped and the electricity must be cut off before maintenance, cleaning and adjustment of it.
- The machine starts working with 220 V-50 Hz. Make sure that your electricity wiring is suitable to the inner electricity regulations and it is grounded for safety of your machine.
- Get an electric technician to do the electricity connection of the machine by Using V-automotic kind of switch in accordance with engine power , delayed fuse and grounded socket . 30 mA leakage current relay must be used.
- Don't try to repair any kind of electrical fault, get an expert electrician repair, instead. Don't wash the engine and be careful not to get it wet.
- Don't use the machine without motor shaft protection cover. If it's broken or lost then get a new one and install it.
- Keep the machine out of reach of both children and uneducated people and unsuitable weather conditions.
- Warning labels to use the machine effectively is written on the machine. If it's torn or lost then get a new one from your supplier, please.

## WARNING LABELS



Attention!



Read the manual, please.



Don't connect the cord into the wall outlet with wet hands.



Disconnect it from the electricity before the repairment.



Use grounded socket.



Hot ground (surface)



Don't get the electricity power, cord and plug wet.



Rotating shaft.

## USE OF MACHINE

- Check if all the animals are tied, the barn is clean and ventilated before starting milking.
- Clean the teats before milking.
- The electricity wiring must have grounded wiring and you must use a delayed fuse suitable to the engine power and grounded socket.
- Make sure that your hands are dry before plugging the power cord.
- Don't move away from the machine during the milking.
- The ground must be flat to keep the machine stable during milking.
- In order not to have any loss of vacuum make sure that the bucket lids are closed tightly.
- Open the switch and pull the vacuum stopper from the milking claw . **(Picture-1)**
- While milking cattle the vacuum indicator must be 0,45 - 0.50 bar pressure and the pulsator must start pulsation movement.
- While milking sheep and goat the vacuum indicator must be 0,35 bar pressure. Adjust the vacuum indicator with a regulator. **(Picture-2)** (don't exceed 0,5 bar pressure)
- The compression cycle in a pulsator must be 60 times for the cattle regarding to pulsation movements, 90 times for the goat, 120 times for the sheep in a minute. ( Description for the setting is in MAINTENANCE section.)
- When the vacuum level reaches to the optimum level, and the pulsator starts pulsation, turn the milking cluster down in your hand in the position that vacuum stopper on claw will be towards the floor and push the vacuum stopper. **(Picture-3)** in this position teats covering will hang downside and will avoid vacuum leakage.
- Install the teats covering to the teats as it is shown in the Pictures. **(Picture-4)**
- Follow the milk flowing from the transparent claw covering , flowing indicator and milk hose. When milking finishes pull the vacuum stopper and take the milking equipment. **(Picture-5)**
- Do the same things for the other animals.
- Be careful to empty the buckets without being filled up completely. Otherwise, vacuum pump will be damaged with milk which will be moved in.
- In order to empty the buckets close the switch, stop the machine and push the vacuum stoppers in trolley machines. In fixed models, close the vacuum valves and push the vacuum stopper.
- After finishing milking and taking the milk from the bucket start the machine by pushing the vacuum stopper and sinking the milking cluster into the warm water. In this way, clearing (pre-rinse) will have been done with the water being sucked and collected in the bucket. Then empty the bucket by stopping the vacuum. Clean (disinfect) the machine doing this activity again with some warm water and bucket cleaning detergent. Finally, repeat that action with clean cold water. **(Picture-6)**
- You can wash all parts of the machine except electrical parts and the engine of the machine.
- Keep the machine in a safe place which it won't be damaged with unsuitable weather conditions and children and animals.



**Picture-1**



**Picture-2**



**Picture-3**



**Picture-4**



**Picture-5**



**Picture-6**



**Picture-7**

## IMPORTANT REMINDERS

- Don't oil any part of your machine.
- Keep your machine clean and keep it out of bad weather conditions. (rain,snow,ice...etc)
- While milking, empty the bucket without waiting for it to be full.
- Don't change the level of vacuum and pulsation of the pulsator; they must be at the level which is stated in the usage section .
- The milking machine has been produced the best quality that will enable you to use it for years so try to use the original parts when needed

## MAINTENANCE

### DAILY MAINTENANCE :

- Check if the machine's electrical cable and plug is ok and the vacuum and milking hose are in the right place before each milking.
- You must clean the machine according to the manual after each milking process.

### MONTHLY MAINTENANCE :

- Check the vacuum tank's side cover by opening it and clean it when needed. If there is any water in the tank, empty it by pushing the outlet stopper at the bottom of the tank. **(Picture-7)**
- Clean the parts that come into contact with milk by using cleaning brushes such as rubber liners, short milk hoses, transparent milk hoses, milk claws.

### MAINTENANCE FOR EACH 6 MONTH :

- Renew the rubber liners each every 6 months.
- Check the short milking and vacuum hoses and renew them if necessary.
- By opening the upper cover of the pulsator clean the filter. Don't open the side covers.
- Check the pulsator's pulsation level. Put your index finger into the rubber liner and push it slowly when the machine starts, the vacuum stoppers are pulled out and the vacuum level is at 0,4 bar pressure. Count the pulsation you feel, it must be 55-60 times in one minute.
- If there is any inappropriateness in pulsation level you can adjust it with the adjusting screw at the back of the pulsator. For this adjustment you must use a 2milimeter-allen adjuster. You can slow the pulsation by turning the adjuster in clock-wise or you can make it fast in the opposite direction.

## SERVICE AND SPARE PART

- Your machine is guaranteed in spare parts.
- From maintenance, repairment and spare parts of your machine you can reach to the nearest service points from where you bought the machine or from the producer company.
- Please prefer the original spare parts to use the machine longer.

# PROBABLE FAULTS, REASONS AND RESULTS

## POINTS TO BE CARED IN GENERAL PROBLEMS

PROBLEM	REASON	SOLUTION
THE MACHINE IS NOT CONNECTED TO THE ELECTRICITY OR IT HAS A LEAKAGE CURRENT.	You may have a problem with grounded wiring.	Call an authorized service or get an expert to repair it.
	There may be some water in the box installed on the engine, in the switch or socket or the cables may be dislocated.	Call an authorized service or get an expert to repair it.
AIR INDICATOR MAY NOT DISPLAY PROPERLY OR THE VACUUM MAY NOT BE AT THE OPTIMUM LEVEL.	There may be air leakage in the vacuum hoses.	Repair it after diagnosing it.
	There may be air leakage on the air regulator.	Repair it after diagnosing it.
	There may be air leakage on the cover at the side of the air tube.	Repair it after diagnosing it.
	There may be air leakage in the emptying stopper of the air tube.	Repair it after diagnosing it.
	There may be air leakage in the milking cluster.	Repair it after diagnosing it.
	Graphite palette in the vacuum pump may have been worn.	Renew it
	There may be air leakage in the bucket's cover or cover gasket.	Repair it after diagnosing it.
	There may be a problem with the vacuum gauge.	Renew it
THERE IS TOO MUCH VACUUM.	Air regulator may have stuck.	Loosen it.
PULSATORS MAY WORK TOO FAST OR SLOW.	The adjustment may have been changed by someone else.	By tightening or loosening the adjusting screw at the back of the pulsator you can enable the pulsation to be 18 times in 15 seconds.
ALL ADJUSTMENT OF THE MACHINE ARE OK BUT IT IS STILL SLOW.	Rubber Liners may need to be changed.	Replace the liners in every six months.
	There may be some fat in milking hoses.	Clean it with the brush regularly.
	Claw transparent cover may have fat inside.	Clean it regularly.
MILKING CLUSTERS MAY NOT HOLD THE TEATS.	Vacuum stopper may not have been pushed.	Push the stopper.
	The vacuum level may be low.	Increase the level of vacuum to optimum level with the regulator.
	Clusters may not be in the position as it is stated in the manual.	Hold the clusters in a position which will prevent any air leakage.

## IMPORTANT POINTS TO BE CONSIDERED ABOUT PULSATOR

<b>PROBLEM</b>	<b>REASONS</b>	<b>SOLUTION</b>
<b>THE PULSATOR DOESN'T WORK</b>	Its valve may be closed	Open the valves.
	Machine may have no air (vacuum).	Do the preparations for milking.
	The hose for the pulsator may have not be installed.	Install the vacuum hose into the pulsator from below.
	The hose may be dirty.	Clean the vacuum hose connected to pulsator
	Pulsator adjusting screw may have been screwed to the right or left side too firmly.	Get it to the optimum level.
	Pulsator diaphragm may have been stuck in the blind spot.	Open the pulsator and install the diaphragms.
	The pulsator may have been stuck with dirt of milk or water.	Renew it.
	The diaphragm may have been torn.	Open the pulsator and clean it.
	The filter in the pulsator may be dirty.	Open the pulsator and clean it.
<b>PULSATOR WORKS SLOWLY AND UNREGULARLY</b>	The vacuum level in milking system may be low.	Increase the vacuum level.
	Vacuum hoses and connection equipments may be dirty or stuck.	Clean the vacuum hoses and connection equipments.
	Rubber liners may be loose or torn.	Renew it.
	There may be looseness in the main body of the pulsator or adjuster.	Screw it in optimum level.
	Air filter may be dirty.	Clean the air canals in the pulsator.

NOTE: Undo the pulsator on a plain floor. Take care not to lose the parts. Get all the parts done firmly and correctly.

# REPAIRS CARRIED OUT UNDER GUARANTEE

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....

The Work Done:.....  
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Replaced Parts:.....  
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Service  
Stamp - Signature

Date of Failure :...../...../.....

Repair Completion Date:...../...../.....



# WARRANTY TERMS

- The warranty period starts from the date of delivery and it is 2 years.
- Our full warranty includes all its components.
- Repairment time is added to the warranty period, in case of malfunctions within the warranty period. The repair time can not exceed 20 working days. This time, starts from the date of notification to the authorized service station. in the absence of a service station this time starts from the date of notification to the one of the property dealer, distributor, agent, representative, importer or manufacturer. The consumer's fault notification can be done by telephone, fax, e-mail or by registered letter or in a similar possible way. However, in case of disagreement the burden of proof belongs to the consumer. The manufacturer-producer or importer of the goods have to be allocated a similar characteristics of another product unless the failure is not corrected within 10 working days.
- Labor costs, cost of replaced parts or under any other name will be repaired without any charge during the warranty period in case of failure of material, workmanship or assembly.
- The consumer can have a free replacement, price reduction or money back in the following cases;
  - - the product has failed at least four times since it was delivered to the customer during its warranty ,
  - - there has been any failure six times in a year and if it prevents the customer to use it,
  - - the deadline to repair it exceeds,
  - - service of the company or the seller or the agency states that the repairment is impossible
- The failures resulted from improper usage of the product are out of warranty.
- You can apply to customs and trade minister ,general manager of consumer protection and market surveillance for any possible problems about warranty .

**Warranty Start Date:** ...../...../20.....

**Machine Model:** .....

**Machine Serial Number:** .....

