

Advantages Of Using Milking Machine

- 1) Clean hygienic milk collection.
- 2) Save labor and time (4min for Cow, 7 min for Buffalo)
- 3) Can be operated by unskilled persons
- 4) Low cost, Easy maintenance and low running cost no electricity required.
- 5) Simulates suckling action of calf.
- 6) Removes all milk from udder.
- 7) Gives uniform pressure on teats and helps to overcome mastitis.
- 8) 100% safety for animal
- 9) Easy carrying handling and operation.

Steps For Milking

1. Clean the milk can, inside of teat adapter cluster.
2. Close the milk can and ball valve of teat adapter cluster.
3. Hold the teat adapter cluster in one hand and sit on the machine and operate the machine handle to and fro until vacuum gauge shows 200 to 250 reading.
4. Prepare cow for milking by cleaning and massaging the udder.
5. Hold the teat adapter cluster on right hand and insert the teats into teat liners of teat adapter.
6. Press the teat adapter cluster against the udder.
7. Slowly open the ball valve of teat adapter cluster and teat adapters clutch the udder of animal.
8. Leave teat adapter cluster to hang on udder and Start operating the machine handle to and fro very gently.
9. Watch milk flow in transparent pipe. Operate the machine continuously until milk flow in transparent pipe stops.
10. After milk is completely drained Hold the teat adapter cluster and close the ball valve.
11. Inset your finger in between teat liner and teat. The teat adapter cluster declutches.
12. To milk another animal repeat step 4 to 11.

Steps To Clean The Milking Machine.

1. Take 3 liter boiling water in bucket Close the milk can.
2. Dip teat adapter cluster in boiling water.
3. Sitting on the machine operate its handle to and fro. Boiling water flows thru the milk pipe into milk can.
4. Open the teat adapter cluster and milk can, wash it thoroughly. If required use mild detergent and brush.
5. Hang the teat adapter cluster in shade and keep the machine in a cool place away from direct sun light



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LOW COST MILKING MACHINES

- **HAND OPERATED MILKING MACHINE**
- **SINGLE PHASE ELECTRICAL MILKING MACHINE**
- **12 VOLT BATTERY MILKING MACHINE**

Hand Operated Milking Machine

Specification:

Milking can capacity:	16 liters
Dry weight of machine:	18 kg
Time for milking cow:	3 to 4 min.(15 liter)
Time for milking buffalo:	6 to 8 min.
Vacuum in milking line:	300mm H ₂ O max
Pulsing:	Alternating two teats/st
Pulse rate:	= No. of strokes made/min (Ideally 60)
Cleaning:	Boiling water.
Adaptability:	One animal at a time only



Simple hand operated milking machine has two reciprocating vacuum pump, a handle to operate vacuum pump, a stainless steel machine frame, an air tight stainless steel milk can of 16 liter capacity, a vacuum and pulse regulator with vacuum gauge, 'teat adapter cluster' with a ball valve and connecting plastic pipes.

The teat adapter has smooth rubber teat liner that is adaptable to any teat size. The teat adapter cluster can be split open for easy and complete cleaning.

Single phase AC motor driven milking machine

This Milking machine is driven by single phase AC geared motor, through a linkage. This Machine is mounted on a stainless steel trolley and can be dragged easily in cow shed.



Specification:

Power required:	180 watt,(220 V single phase)
Dry weight of machine:	30 kg
Time for milking cow:	3 to 4 min
Time for milking buffalo:	6 to 8 min.
Vacuum in milking line:	300mm H ₂ O max
Pulsing:	Alternating (two teats/stroke)
Pulse rate:	60/ min.
Cleaning:	Boiling water.
Mounting:	Stainless steel trolley
Adaptability:	One animal at a time only

Steps for milking

1. Clean the milk can, inside of teat adapter cluster.
2. Close can lid, keep the ball valve of teat adapter cluster open switch on the machine then close ball valve.
3. Run the machine until vacuum gauge shows 200 to 250mm of H₂O reading.
4. Prepare cow for milking by cleaning and massaging the udder.
5. Hold the teat adapter cluster on right hand and insert the teats into teat liners of teat adapter.
6. Press the teat adapter cluster against the udder.
7. Slowly open the ball valve of teat adapter cluster and teat adapters clutch the udder of animal.
8. Leave teat adapter cluster to hang on udder and Start operating the machine handle to and fro very gently.
9. Watch milk flow in transparent pipe. Operate the machine continuously until milk flow in transparent pipe stops.
10. After milk is completely drained Hold the teat adapter cluster and close the ball valve.
11. Insert finger in between teat liner and teat. The teat adapter cluster declutches.
12. To milk another animal repeat step 4 to 11.

12 volt battery driven milking machine

Milking machine is driven by 12 volt DC geared Motor, through a linkage. This Machine is mounted on a stainless steel trolley and can be dragged easily in cow shed. A battery charger is used to charge the battery. Once charged, the machine can run for 2 hours continuously.



Specification:

Power required:	150 watt, (12 volt DC)
Battery:	35 Ah 12 volt
Dry weight of machine:	30 kg
Time for milking cow:	3 to 4 min
Time for milking buffalo:	6 to 8 min.
Vacuum in milking line:	300mm H ₂ O max
Pulsing:	Alternating (two teats/stroke)
Pulse rate:	60/ min.
Cleaning:	Boiling water.
Mounting:	stainless steel trolley
Adaptability:	One animal at a time.

Milking procedure is same as single phase motor driven milking machine

Cleaning of electrical & battery driven milking machine.

1. Take 3 liter boiling water in bucket Close the milk can.
2. Dip teat adapter cluster in boiling water.
3. Switch on and run the milking machine. Boiling water flows thru the milk pipe into milk can.
4. Open the teat adapter cluster and milk can, wash it thoroughly. If required use mild detergent and brush.
5. Hang the teat adapter cluster in shade and keep the machine in a cool place away from direct sun light