

OUR GOAL

We strive to establish service / demand balance
And trying to create various alternative
Solutions. Hence, our biggest aim is to keep and
Develop current manufacture, and strengthen
our prestige.

It is a fact that, we are located in pioneer
Positions, and succeeded to boost technical
Abilities to be present amongst pioneers. Today
We intend to be present in world markets.
Regarding our efforts, today Greenoak
Manufacture bear the seals of:

- ISO 9001: 2000 Quality Assurance Certificate
 - CE Declaration
 - GOST-R Certificate
 - Post Sales Service Efficiency Certificate,

Therefore, we succeeded in promoting Manufacture quality.





DEFINITION AND TERMS

Hazard Caution Signs



Read user guide before operating



Caution! Life hazard!

To be opened by authorized personnel only.

Use genuine spare parts only.



Ground sign, (Should be white or silver colour)

Description of Milking Machine and Advantages.

Our milking machines, which are manufactured for serial production has A modern design by Turkish engineers, harmonisates latest advances in technology.

Your product is equipped with stainless steel milk buckets, and we Are the first in Turkey regarding this subject.





DEFINITION OF MILKING MACHINE AND ADVANTAGES

Main advantages of our milking machines are; Stainless steel bucket manufacture do not create sterile area as storage space Only, but also easy to clean (Comply standards, regulations of the EU)

Strong vacuum pump supplies constant vacuum during milking. Therefore, Constant pressure applied to nipples, and milked animals are not harmed or hurt and milk is taken in a short period.

DEFINITION



Sales: Tel. No. 01270 211113 Fax No. 01270 585808 E-Mail: greenoak.crewe@btconnect.com www.greenoak.uk.com





<u>Chassis:</u> Designed to operate Both at small and big Corporations.

<u>Pulsator:</u> Our pulsators Which are delivered after testing Process, are adjustable for all animals.

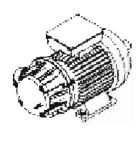
Vacuum pump: Various powered
Vacuum pumps manufactured
Previously, checked by flow meter
Afterwards and prepared to work for a long period.

Exhaust: Manufactured for reduced noise operation.

<u>Lubricator:</u> Oil flow speed is adjustable.

Milking Bundle: Food safe rubber nozzles are manufactured especially for Greenoak. Outer Covers are stainless steel.





Vacuum pump



Milking bundle

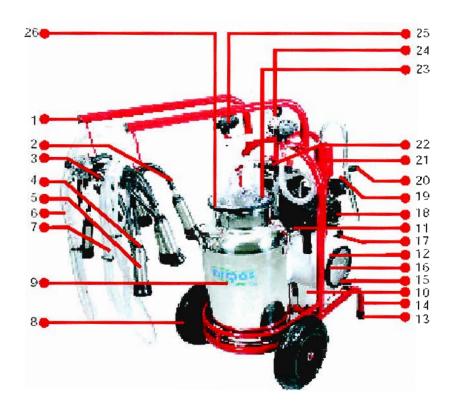
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Introduction of Milking Machine

01.01 Introduction Or Milking Machine







01.02 Spare Part's Names

- 1. Anienna wedge
- 2. Rubbernozzio
- 3. Short vacuum hose
- 4. Norte plantic
- 5. Scamiess norse
- 6. Milking hose
- 7. Twin hose
- 8. Tyre
- 9. Stainless bucket
- 10. Vacuum tank bottom plug
- 11. Electric engine
- 12. Vacuum tank
- 13. Foot wedge
- 14. Chasis
- 15. Vacuum tank side iid
- 16. Vacuum tank side lid gasker
- 17. Regulator
- 18. Vacuum pump
- 19. Lubricator
- 20. Handle
- 21. Exhausi
- 22. Plastic valve
- 23. Bucket na (40 nters)
- 24. Vacuum meter
- 25. Pulsacor
- 26. Bucket cover lid gasket (40 liters)









Transportation and Storage

During transportation of machine, plastic or cartoon boxes used to avoid harm. Multi layer storages during transportation must be avoided. Friction during Transportation must be prevented by applying isolation material between.

Warning

During transportation, hold machine from handle or bottom.

Storage

Storage must be in dry atmospheric conditions. Machine must be kept under Plastic cover. Must be avoided from sunlight and moist.

Warning

After transportation vehicle admits customers area and after storage, no Responsibility is taken by Greenoak





Preparing for operation and operation:

Points must be focused on prior running:

- ? Machine must supply power from grounded line.
- ? Check operation voltage that is printed on engine, if compiling with line voltage.
- ? All protection precautions must be taken before operation.

Process before operation:

- ? Follow same milking time everyday.
- ? Submerge a clean and soft cloth into warm water that your hand can resist. Squeeze it. And make necessary cleaning on nipples, as you massage them. (This process will relax animal and release milk faster.)
- ? Apply pre milk prior to milking. Take milk into a separate cap to empty nipple (Do not pre milk onto the ground or bucket.)
- ? First milk that you obtain usually contains high amount of bacteria. Further more you'll be able to recognize rotten milk because of illness. Pre milking will relax milking process too.
- ? We recommend you to put a plenty of feed in front of the animal. This is for easy milking and milk efficiency. Feeding animal just after milking is a must.
- ? Carry the machine right next to the animal.

Warning

Cleaning of bucket must be checked prior milking.





Operating

- To avoid air infiltration into the system, please:
 - Shut milking claw valves by pulling up.
 - Shut bucket lids
 - Open two air valves, which are connected to pulsators.
- Turn the switch on.
- Vacuum meter will start to rise just after engine starts to run. By the effect of pre
 Adjusted regulator, vacuum meter will get into fixed position when reaches level of 0.48 bar.
 If the indicator doesn't reach marked point, please check lids, which are supposed to be shut
 And close them if they aren't so.
- Once you turned the valves on, pulsators will start to operate. Pulsing on nipples are 55-60 times per minute. At this point, vacuum meter will indicate 0.48 bar.

Applying of Nozzle

- Hold milking claw as indicated on photo. At this case,
 Nozzle will fall down and will act as vacuum stopper plug (Photo 1)
- Hit claws upper plug (Upside down after you hold the Claw) downwards.
- Be careful that you hold the unit upright. Short milking Hoses must be bended to avoid vacuum release. (Photo 2)
- Hold one of nozzle with your left hand, press downwards
 So that you can bend short milk hose. And attach to nipple quickly.
- Do not attach other, before one surrounds nipple properly.
- Attach nozzle without twisting them.
- Be sure that, nozzles are touching breast properly.
- Check milk flow on transparent cover at claw.
- Although milking duration depends on the animals.
- Efficiency it is generally between 5-7 minutes.





Uninstallation of Nozzles

- When you observe that milk flow is ended, pull claws upper plug (Its upside down after you hold the claw) upwards.
- Afterwards, you can easily pull nozzles because of the vacuum loss.

Pulse Adjust

- Pulse must be 55-60 per minute, and vacuum meter at 0.48 bar level.
- For control, insert your thumb into the nozzle and count pulses per minute.

Warning

If you detect difference or if your pulsator is out of order, do not open it. Forward to the Closest authorized dealer or service. Your problem will be solved instantly.

To change vacuum round:

If you detect that vacuum is reduced, increase it by turning vacuum regulator to clockwise, Or if you detect the opposite, do vice versa (Photo 3)





Maintenance

THE MOST EXPENSIVE MAINTENANCE IS CHEAPER THAN CHEAPEST REPAIR.

- Clean vacuum tank once a month. Take one lids off, clean, and remount it.
- If you detect water in the vacuum tank, discharge whenever it needs.
- Check nozzle for cracks on, change rubbers. Or, infiltrated milk can contact pulsators And cause malfunction.
- Change nozzles every six months or every 1800 milking periodically. Milk which
 Resides in cracks may cause nipple infection. Periodical changes will prevent Mastitis
 And other nipple diseases.
- Pulsators are dry types. Never lubricate them. Clean by air.

Cleaning

- Clean your machine right after you finish milking.
 In cleaning process,
 run your machine as you are milking.
- Submerge milking bundle vertically into a bucket full of 30 C - 40 (86 - 104 F) of water. Milking bundle will start to siphon water. Continue this process till the water is totally siphoned.
- Repeat process with another bucket of water, includes disinfectant (recommended) agent.
- Clean your rubber parts and milk hose.

•





Recommendations

- Keep your machine clean every time.
- Use grounded fuse.
- If any malfunction occurs in the engine, allow an authorized Electrician to check it.
- If you detect a malfunction in the pump, inform our service.
- During milking process, be sure that the bucket is not overflowing.
- Discharge collected milk after every milking. Otherwise, milk
 Can be siphoned by vacuum pump and may cause malfunction.
 Check your machine frequently. Change old parts. You can supply
 Every kind of spare parts from our dealers or factory.

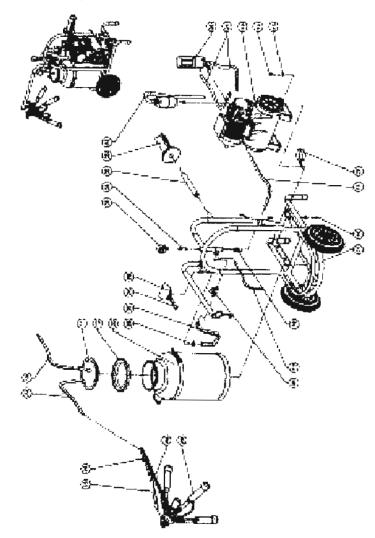
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SINGLE AND DOUBLE MILKING (OILED OR DRY TYPE) MILKING MACHINE INSTALLATION

05.01 Milking Machine Installation



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Milking Machine Spare Part's Names

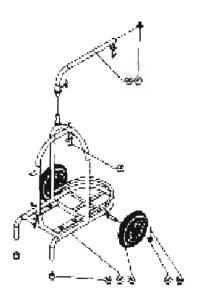
- 1. Chassis installation
- Handle
- 3. Handle bar
- 4. Vacuum meter hose
- 5. Vacuum meter
- 6. Air distribution valve (Plastic valve)
- 7. Pulsator hose (24*12*450 PVC)
- 8. Hose cuffs metal 18*25
- 9. Pulsator
- 10. Vacuum hose 24*13*300 PVC
- 11. Bucket lid 40 litres
- 12. Bucket lid gasket 40 litres
- 13. Installation of vacuum pump with tank
- 14. Bolt M8*20
- 15. Washer 5/16"
- 16. Nut M8
- 17. Air hose (Between tank and air distributor)
- 18. ½ male adaptor
- 19. Exhaust installation
- 20. Clean lubricator installation
- 21. Oil siphon hose (Thin oil hose)
- 22. Stainless steel bucket
- 23. Milking hose 14*24 PVC
- 24. Twin hose
- 25. Hose cuff
- 26. Milking bundle
- 27. Dirty oil apparatus





05.03 Chasis Installation





Spare Parts

- 1. Chasis
- 2. Turo
- 3. Tyre washer (Straight chip) M20
- 4. Tyre pin 3'35
- 5. Chash toot wodge
- 6. Antenna wadgo
- 7. Cross

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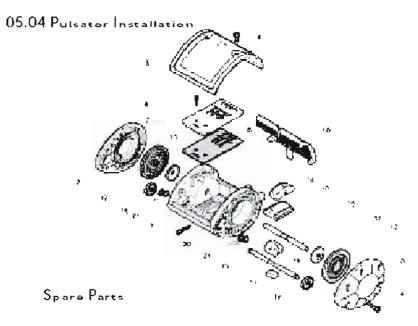
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Pulsator Installation



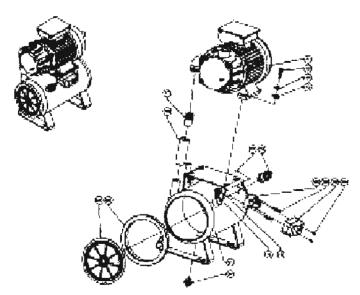
- 1. Pulsator main body
- 2. Pulsator loft side cover
- 3. Pulsator right side cover
- 4. Pulsator cover installation screw in ex YSB 3,5112
- 5. Pulsator stainless covor
- 6. Pulsavor cover screwinex YSB 3 5113
- 7. Pulsator plate
- 8. Pulsator plate gasket
- 9. Pulsator bakelite screw mox YHB 2.9*9.5
- 10. Pulsator filter
- 11. Pulsator front axis guard

- 12. Pulsator big diaphragm
- 13. Pulsacor front axis stide
- 14. Pulsator front axis slide top
- 15. Pulsator front axis
- 16. Pulsator small dia phragm
- 17. Pulsator back axis slide bottom
- 18. Pulsator back axis stide top
- 19. Pulsator back axis
- 20. Pulsator adjust screw inox M4°25 imbus
- 21. Pulsator O-Ring 2 57*1, 78
- 22. Pulsator adapter
- 23. Pulsator adapter rubber (13)





05.05 Vacuum Tank Installation



Spare Pares

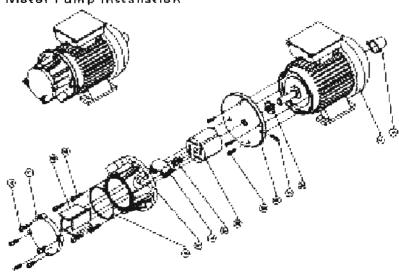
- 1. Tank body
- 2. Bottom plug
- 3. Side lid gasket
- 4. Side nd
- 5. Electric switch
- 6. Electric switch connection Bolt M4'30
- 7. Electric switch connection nut
- 8. Switch cover
- 9. Switch cover boit M4*10
- 10. Regulator

- 11. Vacuum pumpana electric engine
- 12. Engine isolation male riake (Plastic)
- 13. Engine isolation female Make (Plastic)
- 14. Flat nake 5/16"
- 15. Connection bott M 8°30
- 16. Connection bott nut M 8
- 17. Check valve





05.06 Motor Pump Installation



Spare Parts

- Electric engine
 (0.55 kW 1450 rpm. 50 Hz.)
- 2. Vacuum pump bottom flange
- 3. Vacuum pump bottom flange
- 4. Flange connection bott imbus M 8*20
- 5. Rotor
- 6. Rotor connection screw YHB (mbus M 10°20
- 7. Pump body

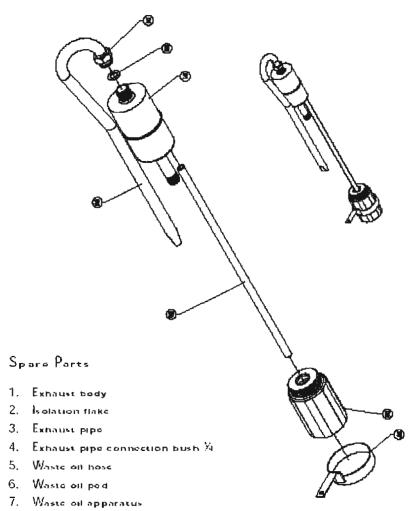
- 8. Body connection bolt imbus M 8*30
- 9. Flap
- 10. Oring 3'105
- 11. Pump cover
- 12. Pump cover connection bott imbus M 6°20
- 13, On bush
- 14. Bend
- 15. Engine axis guard cover





Oiled Exhaust Installation

05.07 Oiled Exhaust Installation



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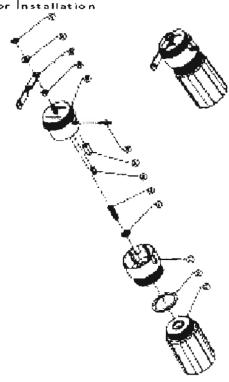
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05.08 Lubricator Installation



Spare Parts

- 1. Nut M 8
- 2. Frat rlake 5/16"
- 3. Clean oil apparatus
- 4. Counter nut M8
- 5. Lubricator bottom
- 6. Oil hose enterance bush M6
- 7. Bush connection square

- 8. Aluminium place
- 9. Adjust scrow
- 10. Adjust scrow counter nut
- 11. Lubricator top
- 12. Eubricator gasket
- 13. Lubricator ped

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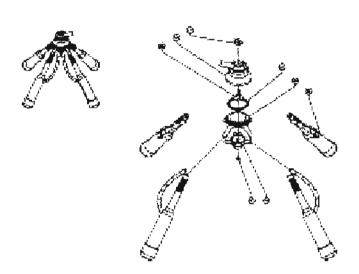
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05.09 Milking Bundle Installation



Spare Parts

- 1. Claw air distributor
- 2. Claw body
- 3. Claw connection bolt M 5
- 4. Claw lid gasket
- 5, Clawia
- 6. Claw interrior parts capair kit male
- 7. Claw interrior parts repair kit female

- 8. Nozzie installation
 - *Staintess nozzlo cover
 - Nozzio piamie
 - Short vacuum hose
 - *Rubber nozzio

To avoid a mistake, please forward correct code numbers of the parts, when you order.

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DIAGNOSTIC AND REPAIR

MALFUNCTION	REASONS	REPAIR
	Vent is closed	Open vent
	Hose between pulsator and vent is distocated	Relocate hose
PULSATOR NOT OPERATING	Pulsator frozen (Extreme weather conditions)	Open pulsator top lid and manually help to move
	Pulsator dirty	Uninstall on to a clean cloth and clean. Install as figured on the photo
PLEASE CONTACT CLOSEST DEALER OR SERVICE, IF YOU RECOGNIZE A MALFUNCTION OTHER THAN ABOVE		
	Bucket lid open	Close lid
VACUUM METER DON'T TOUCH MARKED POINT	Vacuum tank side lids are dislocated	Check vacuum tank side lids and locate them
	Milking claws plugs open	Close plugs
	Flaps in engine are detrited or broken	Dislocate pump cover, check, and replace
MILK FLOW IN HOSE LOW	Hose choked	Clean hose
	Air hole over milk claw choked	Clean air hole
TWIN PULSE HOSE CONTAINS MILK	Nozzle plastic blown up	Change nozzle plastic

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Technical Specifications

AK / 1 SINGLE BUCKET, SINGLE MILKING DRY TYPE MILKING MACHINE

- One 180 litres / min, dry type pump.
- Four graphite flaps, lubrication free.
- One 34 HP(0,55 kW) 220 V. 1400 rpm 50 Hz. Electric engine.
- One 60/40 Greenoak pneumatic pulsator.
- One stainless steel bucket.

AY / 1 SINGLE BUCKET, SINGLE MILKING OILED TYPE MILKING MACHINE

- One 200 litres./ min. oîled type pump.
- Four fiber flaps. Consume number 10 oil at summer, and 20/50 at winter.
- ¾ HP (0,55 kW) 220 V 1400 RPM 50 Hz. Electric engine.
- One 60/40 Greenoak pneumatic pulsator.
- One stainless steel bucket.

AK / 2 SINGLE BUCKET DOUBLE MILKING DRY TYPE MILKING MACHINE

- 200 litres / min, dry pump.
- Four graphite flaps. Lubrication free.
- ¾ HP (0,55 kW) 220V 1400rpm, 50 Hz. Electric engine.
- Two 60/40 Greenoak pneumatic pulsator.
- One stainless steel milking bucket.

AY /2 SINGLE BUCKET DOUBLE MILKING OILED TYPE MILKING MACHINE

- 220 litres / min, pump oiled type.
- Four fiber flaps. Consumes; number 10 oil at summer, 20/50 at winter.
- ¾ HP (0,55 kW) 220 V 1400 RPM 50 Hz. Electric engine.
- One 60/40 Greenoak pneumatic pulsator.
- One stainless steel bucket.

EXPIRY DATE

Estimated operation period is 10 years after first run.

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