

Donkey reel

USER MANUAL

Page 1 of 9



EU Declaration of Conformity

Manufacturer: Bucher Municipal A/S

Address: Lillehøjvej 15, DK-8600 Silkeborg

SE/VAT No.: 20010088

Machine: Donkey Reel (Tilting donkey reel is an accessory for mounting on Hinowa HS1100+PT9G)

Serial No.:

Date:

(dd.mm.yy)

Bucher Municipal A/S Hereby declares that the above machine type has been manufactured according to the Council's

Machine Directive 2006/42/EF

Parts of the following standards have been used DS EN ISO 12100 ISO 11684

Beachnesser

Manufacturer: Bucher Municipal A/S



Content

EU Declaration of Conformity	2
Content	3
Introduction to the machine	3
Important	3
Key to symbols	3
Commissioning	
The machine's pictographs	
Safety regulations	
Maintenance	
Technical specifications	

Introduction to the machine

The donkey reel is meant for/used in places where a regular sewer cleaning vehicle is not able to go. I.e. passing soft ground or accessing narrow space backyards. It is equipped with expandable tracks for improved stability.

Before starting up the donkey reel, it is important that the operator reads and understands this and Hinowa's instruction manual in full. This will ensure correct use in any working conditions as well as maximum safety for the operator and the surroundings.

Important

The instruction manual is to be considered an important part of your new machine. The manual contains important information on safety and correct use. Therefore, it must be read and understood in full before using the machine. The manual should be kept together with the machine. It is important that this manual and Hinowa's manuals follow the machine. All information in this manual are based on the latest product information available at the time of editing the manual. J. Hvidtved Larsen A/S reserves the right to at any time to make changes without warning and without incurring any obligations.

The manual describes the use of the tilting donkey reel mounted as an accessory on the Hinowa HS1100+PT9G. Therefore, everything regarding the Hinowa HS1100+PT9G alone is to be found in the manual for it.

The tilting donkey reel mounted on the Hinowa HS 1100+PT9G tractor will in this manual be called "Donkey reel".

Key to symbols

To underline particularly important information, the following symbols are used:



NOTE Triangle with an exclamation mark is a warning symbol cautioning you of particularly important instructions





Commissioning

Start-up/ use of Hinowa hs1100: See Hinowa manual.

Position of controls

- 1. Left and right tracks movement
- With the hydraulic quick couplings engaged and handle 2 activated, the function of the hose reel lever is now activated for reel control. A metal plate will hold the handle 2 activated. The lever on the hose reel controls the direction of the hose, A hose in and B hose out. To activate free run mode, push the lever all the way down (C) until it snaps into place.
- 3. Widening the tracks of the undercarriage.
- 4. Track speed.
- 5. With the hydraulic quick couplings engaged, lever 5 is tilting the jetting reel to jetting position as shown at beneath picture. Remember to fold down the supporting legs position 7 or else the dumper will tilt when jetting.
- 6. Throttle up and down (can be used to control speed of the reel/hose).
- 7. Support legs.
- 8. Manual hose guide.







Manual hose guide: Crush hazard to the operator's hands can occur at the hose guide. Therefore, the operator's one hand shall operate the hydraulic valve (A,B), while the other hand operates the hose guide with the handle (8).



Incorrect use of the donkey reel can be dangerous! It is the **OPERATOR'S** responsibility to observe the warnings and instructions listed in this and HINOWA's manual and on the machine itself.



Failure to observe the information in this manual, possible unauthorized changes to the machine's controls or changes of the machine's technical construction, exempts the manufacturer of any responsibility for injuries on persons and material damage. Furthermore, any kind of warranty no longer applies if unoriginal parts are used.



Before high-pressure jetting ensure the reel is tilted and the 2 support legs (7) are locked in outer position.

The Machine's Pictograms



Authorized personnel use only



Everyone else but the operator: Stand clear of the working machine.



Turn off the engine and remove the key before servicing or repairing the machine.



Chain drive: Crush hazard never reach into the crush hazard area



Careful of severe blows/jerks in the hose as well as roll up/roll out of the hose



Hose guide: Crush hazard never reach into the crush hazard area



Read the manual thoroughly prior to starting up the machine. Observe instructions and safety guidelines.



Hose reel: Crush hazard



Safety Regulations



Below you will find 30 points regarding safe correct use of the donkey reel. The warnings and precautions must all be observed.

Note! The donkey reel may not seem big, but fully loaded it weighs approximately 1 tonne – and may thus pose a significant crush hazard – worst case fatal.

- 1. Never operate the donkey reel if you are under the influence of medication, drugs or alcohol as it may weaken your sight, reactivity or judgement.
- 2. The donkey reel may never be operated by minors or persons with poor health.
- 3. Only use the donkey reel, when it is in perfect technical condition.
- 4. Always adjust the engine's rpm to the conditions.
- 5. Never leave the donkey reel to another user (possible renter) without handing over the manuals for the donkey reel and make the user understand the importance of reading the manual. For safety reasons they donkey reel may only be used by skilled personnel.
- 6. The donkey reel may only be used for jetting jobs and not for e.g. transportation of people or animals.
- 7. Always stop the engine and remove the key when leaving the machine. The donkey reel may pose a danger to children or unskilled persons.
- 8. Always keep a sensible distance to other persons, housings, other machines and fixed objects in order to avoid crush hazard.
- 9. Never use the donkey reel for jetting with the hose reel is in transport position or if the hose has not been fully rolled up.
- 10. Keep a sensible distance to pits.
- 11. Never lean in over the machine due to danger of personal injury.
- 12. Always keep a minimum 5 metres safety distance to other persons. Be alert when the donkey reel is driving on a slope, when the reel is being tilted and when working with the jetting hose.
- 13. Make sure that the ground surface can carry the donkey reel safely.
- 14. The donkey reel jetting hose must be emptied, when the temperature drops below +2 °C. Emptying is done with compressed air.
- 15. The donkey reel may not be used if there is a risk of ice or ice crystals formed in the hose.
- 16. Both of the operator's hands must be free to work with the donkey reel and not used for smoking or talking on the mobile phone when operating the donkey reel.
- 17. Parking of the donkey reel may not take place at a slope.
- 18. Never leave the donkey reel with the hose reel tilted without support legs mounted.
- 19. Make sure that there is always a person within hearing distance in case of an accident.
- 20. Never work under the reel unless the reel has been secured against tilting.
- 21. Always lock the donkey reel with a chain or the like, when leaving the work site in order to avoid theft and possible misuse by an unskilled third person.
- 22. Always keep the donkey reel clean and tidy ensuring that instructions and warnings on the machine are clear and readable.
- 23. Improper use of the donkey reel may be dangerous!
- 24. The warnings and safety instructions must be observed in order to achieve safe and efficient use of this product. It is the operator's and the owner's responsibility to observe the warnings and instructions listed in this manual and on the machine itself.
- 25. Stop working immediately if irregularities arise when the unit is in use, until the cause of the trouble has been rectified.
- 26. Always have the belts in outmost position. The narrow position is for storage only.
- 27. Avoid changing directions when driving on a slope. Maneuvering on a slope is dangerous. Reduce traveling speed and accelerations to avoid tilting or sliding.



- 28. Take care when using the machine in reverse as the risk by falling or sliding is greater.
- 29. Always minimize the risk of overturning. The Machine is not fitted with protective structures against overturning.
- 30. If the donkey reel is about to tilt, let go of the controls and jump to safety away from the donkey reel.



Jetting with Jetting Nozzle

Feed the hose with the nozzle a good way into the pipe before turning on the water. The jetting nozzle will penetrate into the pipe by means of the water pressure, bore its way through the blockage and flush the impurities back out. As soon as the nozzle has gone through the blockage, pull it slowly backwards via the haul on the hose reel, and it will then flush impurities all the way back.

As soon as the nozzle nears the mouth of the pipe, be very careful, as the hose can jump out.

When the flushing with nozzle is completed, set the water pressure back down to zero.



Handling the High-Pressure Hose

The operating pressure which is printed on the hose must never be exceeded. The hose should not be cracked, twisted, pressed together or driven over. If the hose has to be pulled over sharp edges, use a sliding bar or a guide pulley so that the hose is not damaged.

A damaged hose must be replaced by a new one without delay.

Only hoses without any defects may be used, and fitted with correctly mounted couplings. Attention should be paid to even minor damage which is found.

Be aware that high-pressure water can cut its way through most materials.



Reeling in the High-Pressure Hose

The high-pressure hose should not be rolled up tightly around the hose reel when the hose is non-pressurized. If you roll up a non-pressurized high-pressure hose, there is a risk that the hose reel will expand when the high-pressure hose is repressurized.



Bucher Municipal A/S does not compensate expansion of hose reel due to tight reeling of a non-pressurized high-pressure hose.



Maintenance

Lubrication: The bearings carrying the reel and the drive chain are lubricated every month. The bearings at the hose reels tilting point and the cylinder's grease nipples are lubricated every 6 months.

The donkey reel is tightened once after 50 hours and subsequently every 200 hours.

- Tighten bolts and nuts, also those under the chain protection shield.
- Tighten the hose connections in general.

Technical Specifications

Technical specifications, dimensions and weight for the standard donkey reel. We reserve the right to make alterations to the donkey reel's specifications and dimensions. Tractor: Hinowa HS 1100+ PT9G Net weight of the donkey reel approximately: 850 kg Net weight of the hose reel: 350 kg Width of the donkey reel: 758 mm/ 1058 mm, Width of the donkey reel with rotary joints: 788 mm/ 1058 mm Height of the donkey reel: 1525 mm, Height of the donkey reel when tilted: 1650 mm Length of the donkey reel when the footboard down, feet in: 2210 mm Length of the donkey reel with hose reel tilted, footboard down, feet out: 2800 mm





Recommended limits for driving on solid ground slopes and parking.

Driving on slopes, max: 15°

Driving on slopes with belts expanded max: 25°