

USER MANUAL
CHAIN AND LEVER HOIST



HANDELMAATSCHAPPIJ VLIERODAM B.V.
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SAFETY INSTRUCTIONS:

- 1 *Before installing and using this unit, in a safe and efficient manner, be sure you have read and fully understood the information and instructions given in this manual. A copy of this manual should be made available to every operator.*
- 2 *Do not use the unit if any of the identification plates mounted on the unit are missing or if any of the information on the plates, in particular the WLL, is missing or illegible.*
- 3 *Lubricate the mechanical parts periodically, especially after intensive use. The components of the brake and friction limiter must never be lubricated and should always be kept clean and dry.*
- 4 *Each time before use, check that the hoist and the accessories used with the hoist are in visibly good condition and that there are no parts missing.*
- 5 *Check, without load, the functions "lifting" and "lowering".*
- 6 *When using the hoist with a push suspension trolley, without load, check that the trolley moves freely. If using a geared suspension trolley, without load, check the direction of movement by pulling on the trolley hand chain. The movement should be carried out on a strictly horizontal plane.*
- 7 *Check with a chain hoist that the hand chain is in place and is not tangled with the load chain.*
- 8 *Check that the load to be lifted is less than or equal to the WLL of the hoist.*
- 9 *Check that the hoist is properly suspended by its suspension hook and that the hook safety catch is properly closed.*
- 10 *Check that the load chain has not been subjected to any torsion when setting up, in particular for the two-strand version.*
- 11 *The chain must be in good condition to ensure safe, correct operation of the unit. The condition of the chain must be checked each time before use as indicated in the "load chain". Also check if the correct chain has been used. Any hoist for which the load chain shows any sign of damage must be removed from use and be checked by an authorized body.*
- 12 *Do not expose the load chain to excess temperatures or abrasive or chemical materials. Protect the chain against all possible damage such as from welding arcs.*
- 13 *The install and use of this hoist must be executed by an expert and under the circumstances which guarantees the safety of the installer, in accordance with the in this category applicable regulations.*
- 14 *The unit must be fastened to an anchoring point and to a structure having the necessary strength to support the maximum load (WLL) indicated on the unit. If several units are used, the strength of the structure must be compatible with the number of lifting units used and with the maximum utilization load of the units.*
- 15 *The unit is designed for manual operation and must never be motorized.*
- 16 *When using the hoist, constantly make sure that the load chain is always tensioned by the load, and in particular, that the load has not snagged on any obstacle when lowering as this could result in rupture of the load chain when the load comes free from the obstacle.*
- 17 *When using the hoist, constantly make sure that the hand chain and the load chain do not rub against any obstacle.*
- 18 *Do not use the load chain to turn around the load.*
- 19 *The unit must never be used for lifting people.*
- 20 *The unit must never be used for any operations other than those described in this manual. The unit must never be used to handle any loads exceeding the maximum utilization load indicated on the unit. It must never be used in explosive atmospheres.*
- 21 *Do not use the hoist if the marking is not readable.*
- 22 *Never park or circulate under a load. Mark out and prohibit access to the area located under the load.*
- 23 *When a load is to be lifted by several units, a technical study must first be carried out by a qualified technician before installation of the units. The installation must then be carried out in compliance with the study, in particular to ensure an even distribution of the load under appropriate conditions.*
- 24 *During lifting operations (up or down), the operator must continuously observe the load to prevent any risk of snagging.*
- 25 *The load chain and the lifting hook forms an integral part of the unit and must not be either disassembled, repaired or modified.*
- 26 *It is not allowed to make any changes to the hoist (like welding or burning).*
- 27 *It is not allowed to use the lever hoist with an extension cable on the lever.*
- 28 *Do not use the hoist if the load chain is not correctly fitted.*
- 29 *Do not attempt to lift fixed or blocked loads.*
- 30 *It is forbidden to change the adjustment of the load stop.*
- 31 *Check that the end of the load chain, slack strand side, is secured to the low limit stop of the hoist.*
- 32 *Regularly check the load hook for any damages. When the hook is bended because of a overfreight, the complete hoist can be damaged and then needs to be checked in total. The load hook needs to be provided with a safety valve.*
- 33 *When the load is being placed you must ensure that the anchor accessories of the load can carry the hook completely and does not obstruct the safety latch.*



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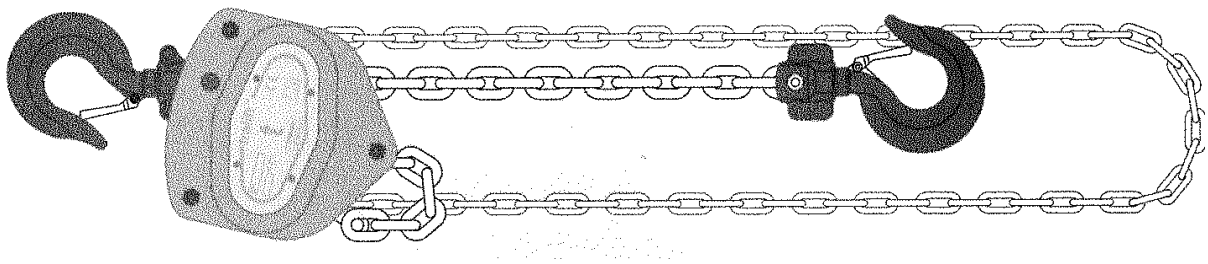
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- 34 *When taking the hoist out of service ensure that there is no load applied and that the load chain is slack enough to enable the bottom hook to be removed from the load.*
- 35 *It is recommended that the hoist be stored hanging so that the load chain does not become tangled. Store the hoist in a dry and weather-roof area. Before storage clean the load chain with a brush and lubricate with machine oil.*
- 36 *Do not use the hoist if the temperature is below -10°C or higher than +50°C.*
- 37 *Do not use the hoist if there is a bad view on the bottom hook or load.*
- 38 *Hoists must be inspected and tested every year by an expert body.*

USER MANUAL:

Chain hoist:

The chain hoist is designed for lifting and lowering a load suspended on a chain (load chain) by manually actuating a second chain (hand chain); it is also used to maintain a load suspended. The hoist is secured to a fixed anchor point or to a moving trolley. The hoist is supplied equipped with a load chain and a hand chain compatible for a standard lifting height of 3 mtr. The load chain is formed by one or several strands equipped with a lifting hook on its load-end side; on the other end (slack strand side), the load chain is secured to a low limit stop itself secured to the hoist. The chain hoist is designed to ensure a minimum mechanical strength of 4 x WLL. The chain hoist is designed and built to withstand dynamic testing at 1.1 x WLL and static testing at 1.5 x WLL.



The operator must pull on the right hand strand of the hand chain to lift the load and to lower the load he must pull on the left hand strand of the hand chain.

The load chain must form a direct line from the load hook to the suspension point before the load can be lifted. The hoist is not to be used for pulling lateral.

Do not operate the chain too quickly as this can result in jolts when lifting or lowering a load. The hand chain should be pulled by a smooth, regular action to avoid any swinging of the load.

Lever hoist:

The lever hoist is a portable manual handle-actuated hoist for lifting, pulling and tensioning, is normally used on a fixed anchoring point or with suspension trolleys. The hoist is supplied with a standard 1.50 mtr length of load chain. The load chain used with the 0.5 ton to 3 ton models is formed by a single strand with a lifting hook at its end. The load chain used with the 6 ton model is formed by two lifting strands and a sheaved lifting hook. The free end of the chain is equipped with a low limit stop. A disengage device allows for fast easy adjustment of the chain using the limit stop. This operation must only be performed with no load on the hoist. The hoist is designed to ensure a minimum mechanical strength of 4x WLL.



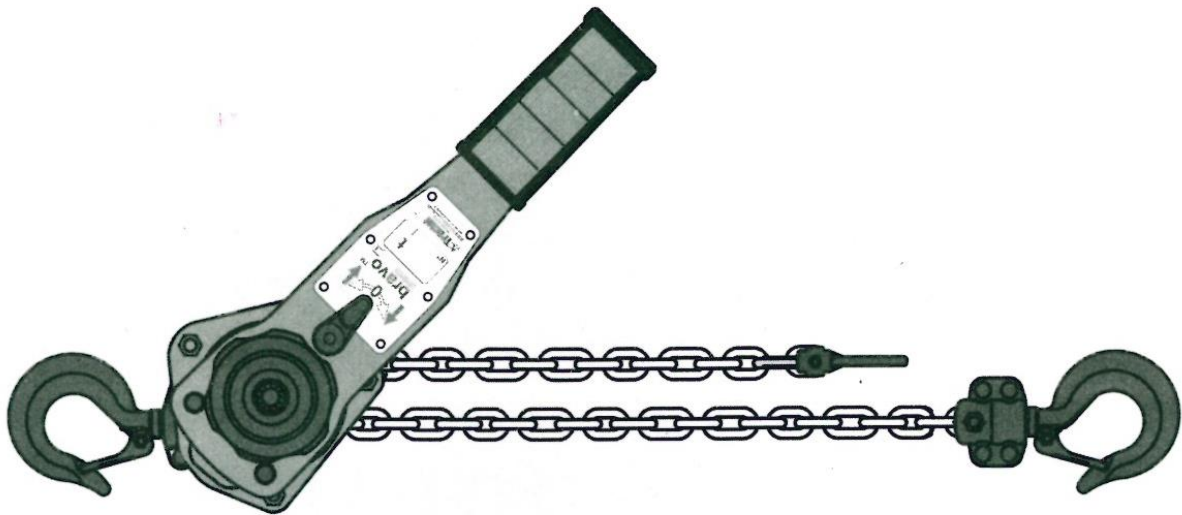
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The hoist is designed and built to withstand dynamic testing at 1.1 x WLL and static testing at 1.5 x WLL.



*The hoist is operated by means of an actuating handle which is moved back and forth by the operator to lift or lower a load, pull a load, or apply tensioning. The central position is the free stand. In this position it is possible to bring (**WITHOUT LOAD**) the chain quickly in to the wright position with the use of the hand wheel.*

ATTENTION !!! It is forbidden to fasten the load to the low limit stop.