

KH 406 DU MAXI-DRIVE



OPERATING, MAINTENANCE & CLEANING MANUAL



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SPECIFICATIONS

<u>DIMENSIONS:</u>	Length	1445mm
	Width	770mm
	Height	1460mm
	Effective lift range	600mm –1880mm
	Leg gating (inside)	590mm – 1090mm
	Max height of C.S.P	1785mm
	Min Height of C.S.P	595mm
	Hoisting reach @ max height	600mm
	Hoisting reach @ min height	500mm
	Height of C.S.P at Max reach	1070mm
	Max reach	700mm
	Under base clearance	60mm
	Base height	210mm
	Leg height from floor	160mm
	Turning radius	1340mm
<u>LIFT SPEED:</u>	38mm per second	
<u>LIFT DRY WEIGHT:</u>	85 Kg	
<u>LIFT CAPACITY:</u>	Max load - 300kg	
<u>CASTORS:</u>	Ø75 Swivel front polyurethane castor Ø220 polyurethane rear drive motor	
<u>FINISH:</u>	Epoxy powder coated Polyurethane legs and yoke PVC cover	
<u>ELECTRICAL ITEMS:</u>	Tested by Linak Australia to standards:- - AS 3108-1990 - AS 3200.1-1990	

SAFETY PRECAUTIONS.

For safety precautions only properly trained personal should use the hoist.

1. The KH406DU Maxi-Drive is manufactured and tested to handle a **MAXIMUM** safe working load of **300 Kg.**
2. The KH406DU Maxi-Drive is manufactured and tested with safety and function for the carer and patients as the utmost importance. No parts should be removed from the hoist without approval this may create an unsafe working condition.
3. **EMERGENCY STOP:**
The KH406DU Maxi-Drive is fitted with an emergency stop. This is the big red switch, located on the front of the controller. If there is a need to use this, simply depress the switch and it will automatically lock the position and cut all power to the electrical system. To disengage the emergency stop switch after it has been depressed, turn the red switch in a clockwise direction and the switch should return to its original position.
4. **EMERGENCY LOWERING AND RAISING.**
The emergency lowering/raising buttons can be used to lower/raise the lifter if there is an electrical or handset failure. The switches are located on the controller under the big red emergency stop switch. Simply press (using a ballpoint pen or similar object. **DO NOT** use a pin or compass) the button which you require. To halt the process, remove the pressure applied to the switch.
5. **LIFTING OF PATIENTS.**
For safety precautions only properly trained personal should use the lifter. When connecting the sling to the patient, please ensure the fitting instructions are adhered too. (Located on the sling or in the sling instruction brochure).
6. Serial No., Model No., and Date of Manufacture are located on back cover.
7. The hoist should not be used on rough or sloping surfaces. ie. Wheel chair ramps etc and it is not recommended that the hoist be used outdoors.
8. **HOIST USAGE**
This hoist is designed to lift and transfer patients from one area to another used in conjunction with the appropriate Kerry Equipment Sling. For further instruction consult the sling brochure supplied with your sling(s).
9. While all care has been taken to eliminate all possible trap points on the hoist, there is potential for trapping your feet between the castors and legs, to avoid injury all personnel are to keep feet clear of this area during use.
10. On a daily basis before using the hoist, check over for any damage, cracking etc. and for loose parts. This is to ensure safety for the hoist operator and patient.



OPERATING INSTRUCTIONS



Fig 1



Fig 2

HANDSETS:

DRIVE CONTROLS:

To drive the lifter, simply press the power button on the joystick (Fig 1). The power indicator lights will come on (green = fully charged, red = depleted)

Determine the speed required by turning drive speed knob (right to increase speed, left to decrease speed) push joystick in required direction to drive.

IMPORTANT NOTE: turn speed down when first operating lifter

Charging is required with Red lights are only lit up.

RAISE/LOWER BOOM:

To RAISE or LOWER the boom on hoist, simply press the required button on the hand controller. (Fig 2) Left top button: raise boom, Right top button: lower boom.

LEG GATING:

To OPEN or CLOSE the "Gate" on the legs, simply press the required button on the hand controller. (Fig 2) Left bottom button: open legs, Right bottom button: close legs.

YOKE - SLING MOUNTING POINTS (Fig 3)

Refer to the fitting instructions supplied with your chosen sling.

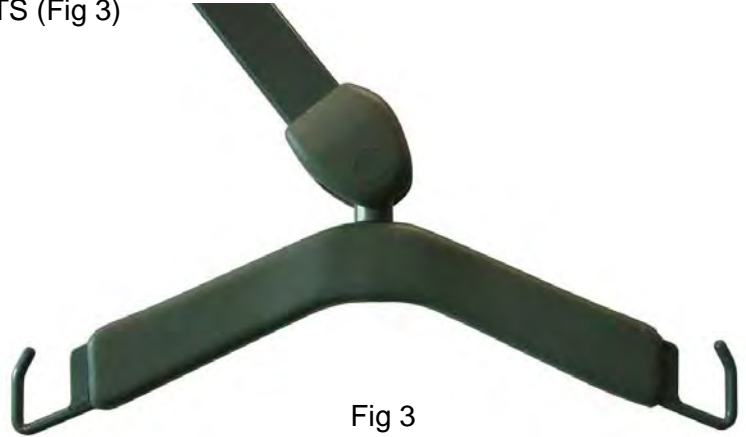


Fig 3

BATTERY CHARGING AND CARE

CHARGING

Before the KH406DU can be operated the batteries will need to be charged. Please follow the instructions below.

- Plug the charger unit (Fig 4) into the 240-Volt supply outlet. Plug the charger into the recharge socket situated on the front of the joystick (Fig 5)
- Coloured lights found on the joystick will light up (Fig 1) The lights will flicker from red to green. When **green lights** are constantly on, the batteries are fully charged and the hoist is ready for use.

NOTE: A battery pack may remain on charge indefinitely without any detrimental effects to the battery or charging unit.



Fig 4: Charger



Fig 5: Joystick

BATTERY CARE

The KH406DU uses fully sealed lead acid batteries. Which are designed to be recharged on a regular basis. To care for your batteries and obtain the maximum life.

DO NOT allow the batteries to run totally flat before recharging.

MAINTENANCE INSTRUCTIONS

The KH406DU hoist requires servicing at a recommended period of 6 monthly intervals to ensure optimal operation at all times. If the hoist is subject to large amounts of use, then it is recommended to have the hoist dismantled by a qualified service personnel and inspected for signs of wear at 2-year periods. This is dependant on use.

In the unlikely event of fault or substantial wear contact your place of purchase or Kerry equipment directly.

LUBRICATION

The KH406DU MAXI-DRIVE require periodical lubrication. These points are:

1. CASTORS

It is always best practice to remove all hair and lint from the castors as soon as possible, always allowing free movement of all the wheels.

The castors need to be lubricated monthly (Use TAC-2 only). This involves: -

- 1.1 The Castor head bearing will need lubricating. Simply spray TAC-2 up into the bearing while rotating the castor (Fig 7).
The wheel also requires lubricating every month. To do this the wheel must be unbolted and removed from the castor frame. TAC-2 can then be sprayed into the hub centre to lubricate the internal bearings (Fig 8).



Fig 6



Fig 7

2. BASE PIVOT POINTS

All pivot points will need to be lubricated with TAC-2 or similar lubricant. Simply spray for 2 seconds on each side of the recommended points monthly.

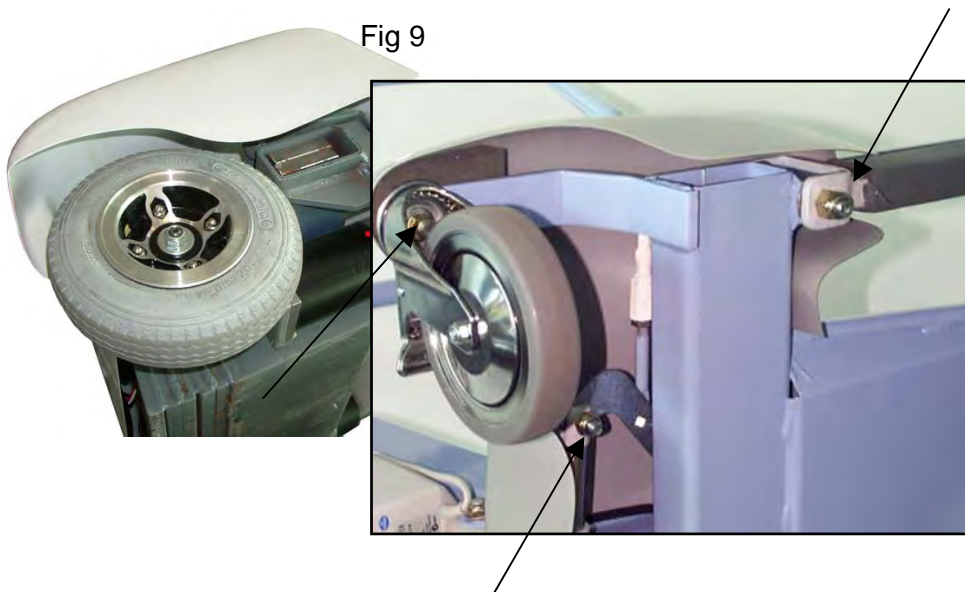
The hoist has to be turned onto its side for access to the following lubrication points. (To do this 2 people are required.)

Follow the instruction below:

- 2.0.1 Both people are to stand on one side of the hoist. One near the push handle, the other by the side of the hoist.
- 2.0.2 The person near the push handle locks the total lock castors.
- 2.0.3 In conjunction with one another pull the hoist towards the side, lowering the hoist onto its side on the floor.
- 2.0.4 The hoist can lie on its side without damage to the plastic cover, but care must be taken when lowering/raising.

You now have access to ALL the lubrication points. ie: pivot points, leg lever, leg pivot etc. Simply spray TAC-2 on all the pivot points for 2 seconds.

- 2.1 Leg Actuator Pivots (Fig 9)
- Leg Pivots (Fig 9)
- Tie Rod Pivot Points (Fig 9)



3. ARM AND ACTUATOR PIVOT POINTS

The arm pivot points will need to be lubricated with TAC-2 or similar lubricant. Simply spray for 2 seconds on each side of the recommended points monthly.

- 3.1 Arm Pivot (Fig 10)
- Actuator Pivots (Fig 10)



TAC-2 is a CRC product and is available from most automotive outlets or from Kerry Equipment.

TROUBLE SHOOTING/ASSISTANCE

LIFTER & DRIVE UNIT NOT WORKING : Ensure batteries are fully charged

Check that Emergency stop button is not depressed

Ensure key is at on position on hand control

Ensure red light is on and depressed on hand control

Check all visible connections

Check for damage to handset or unit

If problems still persist, please contact your nearest Kerry Equipment distributor or Kerry Direct on the details provided in the rear of this manual. Do not attempt to remove cover.

ASSEMBLY / DISASSEMBLY INSTRUCTIONS

Kerry Equipment fully assembles their hoist prior to delivery. Kerry Equipment only recommends qualified service personal to work or service any of their hoists. Any assembly or disassembly should be checked with Kerry Equipment and or Distributor before commencing with any repair.

GENERAL CLEANING

1. The KH 406 DU SWIFT-DRIVE can be cleaned with a low strength detergent, warm water and a soft textured cloth. This includes all Epoxy powder coated framework, PVC cover, polyurethane legs and yoke.
2. **CAUTION**
Do not immerse any parts in water.
Do not allow water/cleaning liquid to enter the battery or controller.
Clean up spills immediately.
3. **SLING CARE**
Protect from direct sunlight.
Repair any cuts or fraying immediately.
Slings are machine washable.

Please refer to care instructions on the sling.

Distributed by: -

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Quality
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