

Excimer Laser Surgery Stretcher

LOP 613 / 614



User Manual



CÔNG TY T
THƯƠNG M
DỊCH VỤ KỸ
TẦN LO







- The LOP 613 / 614 series have been designed in compliance with and to meet or exceed the requirements of
 - ➤ EN 60601-1
 - > Class I products in accordance with the German Medical Products Law
 - > Radio interference certification EN 55011/Class B
 - ➤ Electro magnetic compatibility EN 60601-1-2
 - ➤ Directive 93/42/EWG annex IX
 - > CE
- Observe the applicable national regulations for the prevention of accidents.
- 2. Product information labels and warning stickers



This sign means:

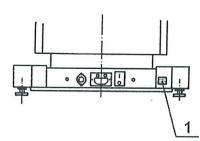
Hazards to the instrument



This sign means: Hazards to the user



This sign on the technical data label means: Instrument type B according to IEC 601-1



1 - Technical Data label

3. Installations instructions and use

Before using the instrument table, please carefully read and observe the safety instructions and recommendations listed in this manual

- $\circ\quad$ Correct use and operation of the table is absolutely necessary for its safe function.
- o Check power specifications on label and ensure compliance with local power supply.
- Connect table only to power sockets equipped with ground circuit. Any break of ground circuit (inside or outside of electrical equipment) may cause hazards to user or equipment.
 Never break ground circuit on purpose.
- o Do not pull or tug on power cord.
- Do not operate the LOP 613 / 614 series in environments exposed to hazardous materials. Do not operate in the presence of flammable anaesthetics and volatile solvents such as alcohol, benzine or similar agents.
- Do not set up the LOP 613 / 614 series in humid or damp rooms. Avoid areas of sprinkling, dripping or splashing water.

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- The LOP 613 / 614 series should be operated by trained and authorized personnel only. Use other than designed use falls within the sole responsibility of operator.
- o Assembly, service or modifications by authorized and trained staff only.
- The LOP 613 / 614 series may be opened only by trained and authorized technicians. Disconnect power cord before opening equipment or changing fuses.
- When cleaning, make sure that no cleaning agent or water enters into the electric control box of the LOP 613 / 614 series



3.1. Safety instructions

- o Avoid any danger of squashing, pinching or contusion for patient, operator or staff.
- To switch off the LOP, use the main switch.

4. Intended use

The LOP 613 / 614 is a surgery stretcher to be used for ophthalmic purposes and has been designed for Excimer Laser procedures. It's maximum vertical lift capacity is limited to 150 Kilograms.

The electric Motors are rated for a continuous operation of approximately 5 minutes. If exceeding this limit, a thermo protection switch may trigger and shut down the motor. After a cooling off period of about 30 to 50 minutes the LOP will return to fully functional status. The use in hazardous rooms is prohibited.

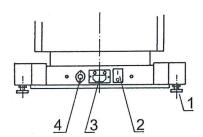
Use other than designed use fall within the sole responsibility of user.

5. Product Description and operating instructions



Set up and level LOP by using the 8 levelling bolts. (fig. 1) Secure bolts with lock nuts. The main power switch (fig 2) is a green illuminated rocker switch.

The analogue Joystick controls the X Y Z axis and allows simultaneous movements in all directions. Acceleration and slow down actions are extremely smooth and allow a very high degree of accuracy to position the patients head.

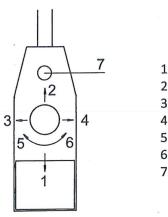


- 1 adjustment screws
- 2 power switch
- 3 power connection
- 4 Interlock plug

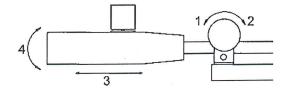
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6. Joystick controls



- 1 back
- 2 forth
- 3 left
- 4 right
- 5 down
- 6 up
- 7 auto-down
- o up / down -- left / right --fwd / bwd movement are controlled by the corresponding movements of the joystick.
- Depressing push button (fig. 7) activates the "auto- down" function and drives the stretcher to it's start up position.
- Attention: To interrupt the auto-down function (emergency-stop) just slightly push or twist the joystick.
- o To change the joystick panel position use the lock screw.



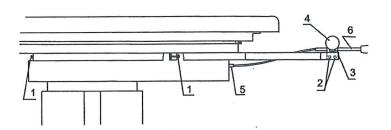
- 1 loose
- 2 tight
- 3 panel forth/back
- 4 panel up/down
- o The joystick panel can be easily mounted to the other side of the OP-table:

Disconnect plug "5", untighten screws "1" and turn the metal bar by 180° and attach on the other side of the OP-table.

Untighten screws "2" and turn part "3"by 180° and remount again.

Loosen the large head lock screw "4".

Pull out the joystick rod, turn it 180°, reinsert into part "3" and tighten lock screw "4". Reconnect plug "5".

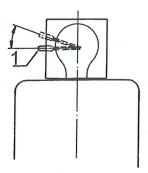


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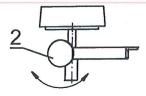


7. Headrest adjustment

 The mechanically reclining headrest is locked and unlocked by the lever "1" and adjustable from +25° to −15°.



A manually height adjustable (+/- 25 mm) but not reclining headrest (fig. "2") is available as an option.



8. INTERLOCK



The OP-table can be connected to the Excimer Laser through an Interlock interface. While the Laser is operating, the LOP is dead locked, if one of the following options apply:

- 1. The Excimer Laser feeds 12Volts DC to the pins 1(-12V) and 2(+12V). While the voltage persists, the LOP is intentionally defunct.
- 2. The Excimer Laser connects (bridges) between pins 2 and 3 with a potential-free relay. This also intentionally defuncts the LOP while the laser is working.

9. Maintenance

The LOP is practically maintenance free.

10. Changing fuses

The fuses are located inside the power connecting box..



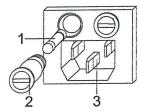
Attention: Prior to commencing any work on the electric or electronic parts of the product, **disconnect the power cord!**

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Use only fuses as specified in the technical data section.



1 – fuse

2 - fuse holder

3 – cable plug

Should fuse blow again after switching on the unit, a major electric problem has occurred. Please contact a qualified service technician.

11. Cleaning and general Care

Before commencing cleaning or maintenance work, pull the power cord

- Clean only the external surfaces of the LOP using a damp but not wet cloth, in case of heavy stains do not use abrasive or aggressive materials but regular cleaning detergents. Do not use ether, Acetone or concentrated acids.
- o Make sure, no water or cleaning detergents or water gets inside the LOP.
- o No special care required to preserve the upholstery material. When soiled, simply wipe clean with damp (not wet) cloth. Use commonly used upholstery spray.
- o Before resuming operation, allow sufficient time to dry.

12. Technical data

	LOP 613	LOP 614
Total length	1895 mm	1895 mm
Upholstery length	1680 mm	1680 mm
Total width	640 mm	640 mm *
Min. height	600 mm	500 mm *
Max. height	800 mm	600 mm *
Lifting speed up to	10 mm/s	10 mm/s
Left/right movement	100 mm	100 mm
Left/right speed up to	7 mm/s	7 mm/s
Forth/back movement	300 mm	300 mm
Forth/back speed up to	13 mm/s	13 mm/s
Short term usage within 10 min.	50 %	50 %
Power connection	230 V 50Hz-60 Hz	230 V 50Hz-60 Hz
Power consumption	230 VA	230 VA
Fuse F1	2xT 4,0 A 250 V	2xT 4,0 A 250V
Weight of device	135 kg	135 kg

^{*} special dimensions possible

All measurements are estimated, technical changes are reserved!

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13. Technical problem analysis guide

Problem	Potential reason	Solution
No function at all	No power connection	Connect power cord
¥	Power switch off	Turn on power switch
	Joystick wire not connected	Plug in joystick power cord
	External power failure	Contact tech. Maintenance
	Thermo switch activated	Wait for cooling off period
	Fuse(s) defect	Replace fuse(s)
Other malfunctions elec-		Call service technician
trical or mechanical		

14. Manufacturer

AKRUS GmbH & Co KG

Otto-Hahn-Str. 3 D-25337 ELMSHORN

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15. CE Conformity

We declare the compliance of the device with the requirements of the Council Directive 93/42/EEC about Medical Devices

