Sykes-Pickavant®
Specialist Tool Solutions

WHEEL LIFTER - HEAVY DUTY 100KG

34196500

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1. INTRODUCTION

Wheelifter 3471 is designed for the handling of the tire during the operations of assembly and disassembly on the vehicle .Carefully read and follow the operating instructions in any work situation, in order to avoid the damage and the risks deriving from the use of the equipment.
The Tire lifter Wheelifter 3471 is designed exclusively for lifting, lowering and transporting tires for cars inside garages or tire replacement centers. The equipment should not be used in the presence of explosive atmospheres .
Any use of the lift, which is not as specified in this manual is to be considered improper.
For a proper use of the equipment, it is recommended and it is considered necessary that operator follows all instructions reported in this manual and that inspections and maintenance are executed as set in the manual.
TECNOLUX s.r.l. will not be responsible in any way for damage or injury that are the consequence of improper use of the equipment.

1.1. WARRANTY TERMS

Warranty terms are applied according to sale contract. The warranties and liability for personal injury and / or material will expire if at least one of the following points occurs:

a) Misuse
b) Incorrect assembling
c) Maintenance and inspection of the equipment not correctly performed
d) The lift is used with protective devices that are not working or not properly installed
e) Instructions regarding the handling, assembly, maintenance and use are not followed
f) Parts subject to wear and / or deterioration are not replaced
g) Damage caused by agents and / or external causes or natural events

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1.2. SECURITY

It is strictly forbidden the use the lift to unqualified people, people who do not know the operating instructions of use and who have not read the manual. Using the lift, operator must be aware of the basic safety standards .
The safety and operating instructions specified in this manual should be considered in addition to the safety rules already set out for the place where the lift is in use.
For a safe use of the lift it is necessary to observe the following points:

a) The lift must be used only for the purposes for which it was conceived. It means that it has to be used to lower or lift the wheel during mounting or dismounting it
b) Defects , non-compliance, malfunction must be reported and corrected immediately
c) If you find any defects, malfunctions or non-compliance, the lift should not be used until these have been rectified .
d) Make sure that the lifter is working correctly after the assembly and initial operation .
e) When charging the battery make sure that the power cord is not in corridors or transit area
f) Do not use and / or operate the lift in explosive atmospheres
g) Before you lift or lower the load, ensure that the tire is stable and well supported so that it cannot fall .
h) Lower the tire completely before transporting
i) Use the lift only on flat floors and free of obstructions
j) Ensure that the use of the lift will not cause damage to other people
k) Keep the area free where the lift is used from obstacles
l) Do not enter into movement area of the lift
m) Do not exceed the allowed maximum loading
n) Perform lifting, lowering and transporting without sudden movements
o) Repairs on the lift can be operated only by qualified persons

It is complusory that operators who use the lift are informed concerning workplace safety, risks prevention, lift operation and they have read, understood and accepted by signature of the instructions and warnings in this paragraph.

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1.3. SPECIAL WARNINGS

Before starting any maintenance or repair, disconnect the wheelifter from any power supply.
Take particular care not to mix up, confuse or incorrectly connect any electrical connection.
Take care not to come into contact with the battery pholes! Protect them and make sure they are electrically isolated before handling the batteries.
Before opening the compartment containing the electrical equipment, the engine, make sure that emergency button is pressed.
Before working on any electrical or mechanical parts or movement parts (eg motor, pulleys, belts, etc.), disconnect the batteries and make sure that the lift can not accidentally come into operation.

1.4. PRECAUTIONAL AND ORGANIZATIONAL ACTIONS

The operating instructions given in this manual must be kept in a place near the area of use of the lift and accessible at any time.
In addition to these operating instructions and safety rules, all other rules relating to the prevention of and protection from risks should be considered and implemented.
It is advisable to monitor the operators to ensure they are operating in accordance with the safety standards and that they are using all safety devices required.
Make sure all safety instructions and usage on the lift are clearly readable.
Do not make any modifications to the lift without the approval of the manufacturer .
Use only original spare parts.
Perform periodic inspections as indicated in the manual.
In case of detected malfunction, immediately turn off the lift and make sure that it can not be used. Repair the fault as soon as possible .

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2. TECHNICAL DATA

2.1. WHEEL LIFTER 3471-TY

TECHNICAL DATA	M.U.	
Width	mm	1065
Length	mm	900
Heigth	mm	1450
Maximum height	mm	1610
Weight	Kg	55
Maximum speed	m/sec	≈0,1
Maximum loading	kg	110
		120 (for sporadic use)
Operational temperature	°C	Min –5 Max +45
Batteries	Nr	2
Bat. Voltage	V	12
Bat. Capacity	Ah	18
Charge tension	V ac	220

2.2. POWER SUPPLY CABLE

The lift is equipped with a power cord to charge the batteries.

CABLE FEATURES		M.U.	
Lenght		mm	2000
Cable type		-	Three poles cable 3x0,75 mm^2
Plug		-	Europe type (CEE7/VII)
	Only for Swiss market		Type J (SWITZERLAND - SEV 1011)
Outlet		-	IEC C13
Working tension		V	250
Nominal power		A	16
Protection level		--	IP 20
External coating		-	PVC
Outlet cable		-	angled

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3. TRANSPORT AND ASSEMBLING

Wheelifter is delivered packed in a carton box on a pallet. It is required a suitable means of handling (such as a transpallet)
Inside the box you will find the machine already assembled, the power cord and the user manual.

In order the lifter to operate you need to connect the battery and remove any protective packing inside the engine compartment.
To connect the battery, follow the step below:

1) Press the emergency button
2) Open the cover of the base (engine compartiment) Figure 1
3) Connect the batteries as shown in Figures 3.
4) Close the engine compartment.
5) Release the emergency button

Figure 1 – Engine compartment opening

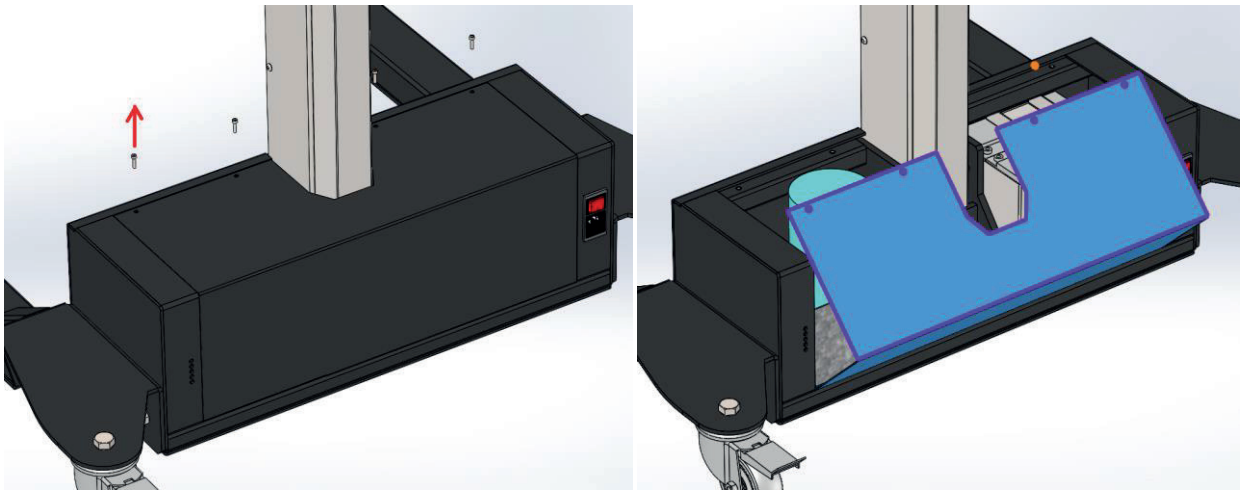
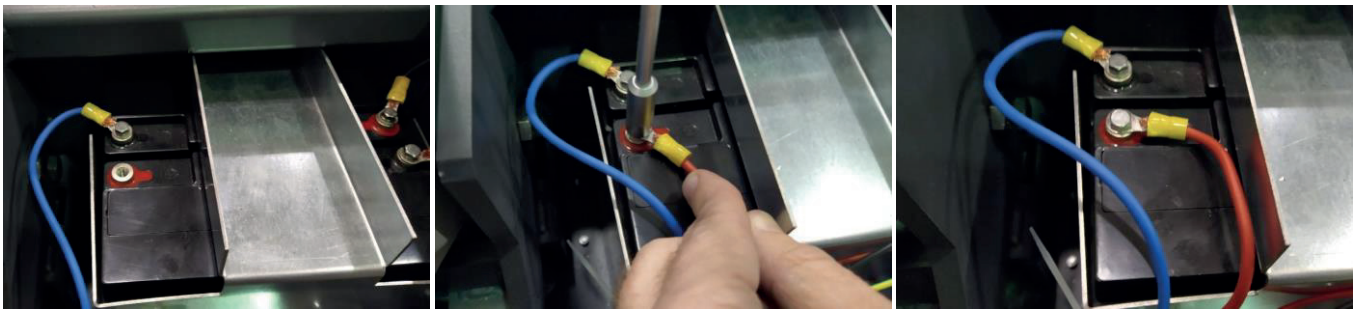


Figure 1 – Connection to the battery



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4. USE

4.1 BATTERIES CHARGE

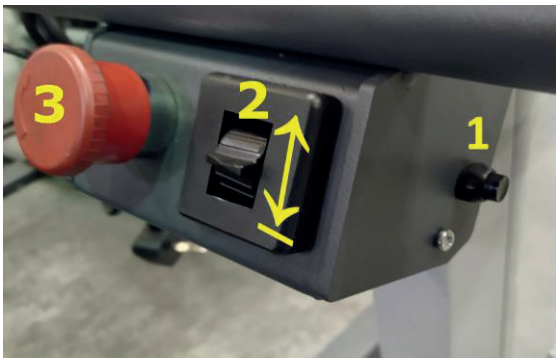
This machine is equipped with an internal electronic battery charger with LED indicators on the state of charging. We recommend before using this machine to make a first recharge.
To charge the batteries connect the power cord to the power of the machine, connect the other end to the 220 V ac main supply. Turn on the charger through the switch on the machine. The LEDs indicate the charging status automatically. It is recommended to recharge the batteries when the charge state of the indicator LED is yellow, without waiting for the battery is fully-discharged.

ATTENTION!

Unplug the power cord from the wall outlet before removing the plug from the machine.

4.2 CONTROLS AND USE INSTRUCTIONS

The commands to manage the lifter are placed in the lower part of the handle.
To switch on the lifter push the button aside (1) and check if the charge status led switched on.
To raise the forks push the lever (2) up.
To lower the forks push the lever (2) down.
When you release the lever, the movement of the forks stops automatically.
If there are malfunctions immediately press the red emergency button (3) which will immediately stop the power supply to the machine.



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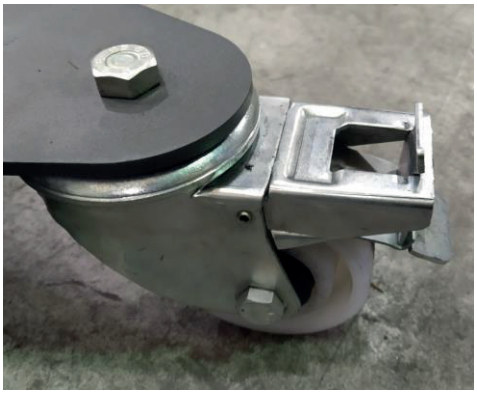
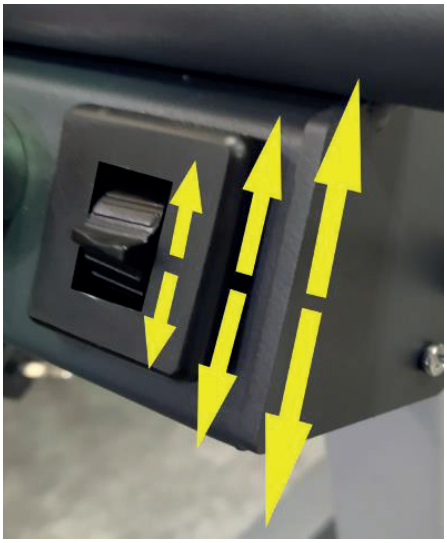
4.2.1 LOADING AND UNLOADING

Move the lifter in a loading point and check if is in a flat floor, lock the wheels and move the fork in lower position, load the tool or part , unlock the wheels and move to the operation point lift the fork.



For a fine positioning move slowly the lever to control the speed.



Before manage the load lock the lifter wheels to ensure that the load doesn't move

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4.3 LED LIGHTS SIGNALS

Led lights on the base of the wheelifter:

BLINKING TYPE	COLOUR	MEANING
Fixed LED	Green or Yellow	Battery charging level
Fixed LED	Red	Discharged Battery
Fast blinking LED	Red	Pressed emergency button
2 fast blinking + pause	Red	Overload of maximum loading capacity
Slow blinking LED	Red	engine temperature too high

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5. MANTEINANCE

In order to obtain a state of optimum service it is necessary to perform regular maintenance on the lift every 3 months. If the lift operates in dusty environment, it is advisable to perform maintenance more frequently.

Before performing any maintenance keep in mind that:

1) All maintenance shall be performed only by qualified persons

2) There must be no load on the lift

3) The batteries of the lift should not be placed in charge during maintenance.

4) The lift must not be connected to the main supply.

5) During the operations of maintenance and / or replacement of spare parts, the equipment and the spare parts have to be displaced in an easily usable way and the lifter in such a way to facilitate intervention without compromising functionality.

ATTENTION!

1) Before performing any maintenance operation, press the emergency button and disconnect the batteries to avoid any risk of unexpected activation of the lift.

The following is an illustrative list of the frequency of maintenance operations.

	Daily	Every 3 months
Battery charge	x	
Cleaning	x	
Control on power supply cable control for battery charger		x
Control on screws tightening		x
Control on wheels for transport		x
Control on emergency button functioning		x
Trapezoid screw greasing		x
Sliding runners greasing		x

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5.1. CLEANING

Do not use pressure washers or high pressure cleaning systems
Use standard detergent and dry thoroughly after cleaning

5.2. POWER SUPPLY CABLE CONTROL

Check that the cable is in good condition and that there are no bare wires and plugs are intact.

5.3. WHEELS CHECK FOR TRANSPORT

Make sure that all the wheels move smoothly on their axis of rotation and the axis of orientation.
Check that the screws are tight
Check that the wheels do not present excessive wear.

5.4. EMERGENCY BUTTON CONTROL

Perform the following tests:

1) Operate the lift and test that it stops when you press the emergency button.

2) Repeat the operation for both the operation during up and down operation.

3) Press the emergency button and make sure that the lift doesn’t respond to the command of climb

4) Press the emergency button and make sure that the lift doesn’t respond to the command of descent.

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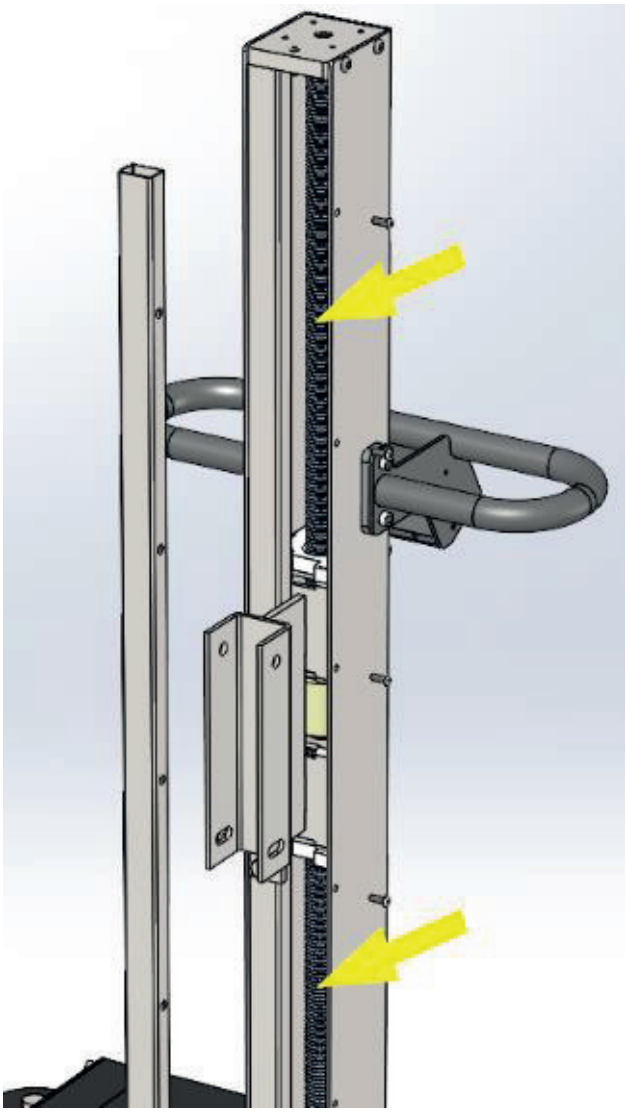
5.5. TRAPEZOID SCREW AND RUNNERS GREASING

To grease the trapezoid screw and sliding surfaces of the skates perform the following operations:

1) Set the forks at about the halfway point (60-65 cm from the floor)
2) Press the emergency button
3) Make sure the power cord is disconnected
4) Open the cover of the engine compartment and disconnect the positive pole of the battery
5) Unscrew the fixing screws of one of the front column bars
6) Grease the trapezoid screw and sliding surfaces of the skates
7) re assembly the front bar and fix the screws
8) Connect the batteries and close the cover of the engine compartment
9) Release the emergency button
7Make a few complete runs of the fork to allow the grease to spread evenly and to be sure that the lifter works fine.

Use the following grease for bearings AREXON GC300 or equivalent.



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5.6. BATTERIES REPLACEMENT

It is possible that during the life of the lift batteries need to be replaced.
To do this proceed according to the instructions specified below:

1) Press the emergency button and make sure that the lift is not connected to any power source.
2) Open the casing of the engine compartment
3) Disconnect all battery cables
4) Remove the batteries and new batteries
5) Reconnect the cables to the batteries, being careful not to reverse or confuse the wires (see wiring diagram)
6) Close the cover of the engine compartment
7) Dispose of old batteries

6. BREAKDOWN CAUSES OR INTERRUPTION

The arrest of the lift or an irregular functioning of it may be due to a few simple reasons shown in the following table.
If it proves impossible to identify the cause of the malfunction, please contact our technical department.

DETECTED PROBLEM	*POSSIBLE CAUSE*	*WHAT TO DO*
Non functioning or irregular functioning Ascent/descent	Uncharged batteries	Charge the batteries
	Exceed maximum loading	Remove the loading and test the functioning of the unit
	Fuses	Check the fuse between the two batteries and replace it if necessary
	Engine overheating	Wait for engine cooling down (to shorten the time open engine compartment)
Batteries cannot be charged	Defective battery	Check batteries voltage (2x12V)
	Non functioning battery charger	Check all connections between batteries and control board
	Fuses	• Check the fuse between the two batteries and replace it if necessary • Check the fuse on the power supply plug for battery charging and replace it if necessary
	Batteries are completely exhausted	Replace the batteries

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7. DISPOSAL

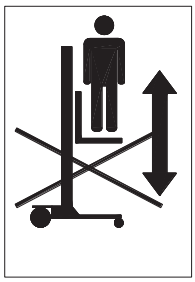
IMPORTANT INFORMATION

According to art. 13 of Legislative Decree July 25, 2005 , n . 151 "Implementation of Directives 2002/95/EC , 2002/96/EC and 2003/108/EC relating to the reduction of use of hazardous substances in electrical and electronic equipment and waste disposal"

The crossed-out dustbin symbol indicates that the product at the end of its life must be collected separately from other waste.
The user should, therefore, take the equipment at the end of its useful life in separate collection of electronic and electrical waste, or return it to the dealer when purchasing a new equivalent product.
The separate collection for the subsequent forwarding of recycling, treatment and environmentally compatible disposal contributes to avoid possible negative effects on the environment and human health and promotes recycling of the materials.
Improper disposal of the product by the user entails the application of administrative sanctions referred to in Legislative Decree no. N.22/1997 (Article 50 and following of Legislative Decree no. N.22/1997) .

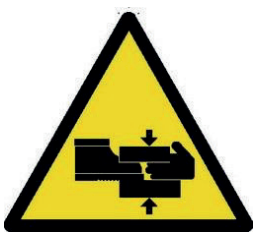
8. STICKERS ON WHEELIFTER

Stickers with following information are sticked on the wheelifter:



Don’t use the whelifter to lift persons

Don’t use the wheelifter to transport persons



Don’t put parts between forks and floor or between forks and base brackets

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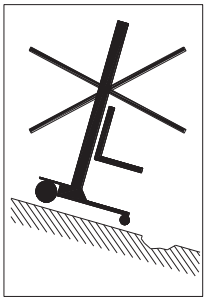
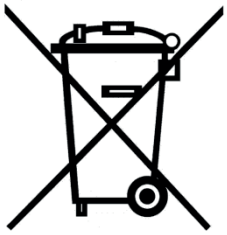


Don’t use the wheelifter on unflat floor

Don’t come up on the wheelifter



Dispose the wheelifter at the end of life cycle (paragraph 7)

Danger of cutting

Maximum load capacity (indication positioned on the forks of the lift)

(for occasional use can be considered a maximum capacity of 60 kg)

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9. SECURITY CONTROLS SUMMARY SHEET

In order to grant security on wheelifter use, it is necessary to perform periodically the following controls (paragraph 5 for more detailed information)

SECURITY CHECKS
Check the presence of sticker indicating model, serial number of wheelifter
Check that all stickers with use indications (loading capacity, use instructions) are visible
Check that all parts are complete and intact, stable and without breakage or deformities
Check that all screws are well tighten
Check that cables and electrical connections are in good conditions
Check that power supply cable of battery charger is in good condition
Test that wheelifter is working with or without loading
Check that the emergency button is working

SERIAL NUMBER :	YEAR OF CONSTRUCTION :	MODEL :

DATE	MALFUNCTION		ADDITIONAL CONTROL	SIGNATURE
	YES	NO		

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