



Transport easily and safely

**up and down stairs**

and on the level



**LIFTKAR<sup>®</sup> SAL**  
powered stairclimbers

**AVERO**  
HANDLING



# LIFTKAR SAL

EASY, FAST AND INTUITIVE

## THE EXTREMELY FAST AND LIGHT POWERED STAIRCLIMBER FOR LOADS UP TO 170 KG

Sounds familiar? Just carry the packs of tiles or crates of drinks one at a time up the stairs quickly, instead of doing a professional job from the beginning: with the LIFTKAR SAL. With the powered stairclimber from SANDO the job is finished sooner and easier, and takes the strain off your back.

The LIFTKAR SAL is as easy to use as a hand truck. You can handle stairs quickly and safely as well, thanks to the battery-powered climbing mechanism. Going up, the LIFTKAR SAL climbs onto the next step efficiently and precisely, all by itself. Going down, the motor acts like an eddy current brake. The load glides down smoothly, softly and safely - no need to press any buttons. Your back is protected and the risk of accidents is minimised.

### Big choice

The LIFTKAR SAL is available in four versions. This choice makes it ideal for all applications in industry, retail and business, as well as in schools, hospitals, commercial kitchens, office blocks and many more.

Whatever your transport needs, the LIFTKAR SAL is available with the right equipment options.

### The motor power you need

There are 3 different motor sizes available that offer the optimum climbing performance depending on the kinds of weight that you need to transport.

110 kg - 48 steps per min.

140 kg - 35 steps per min.

170 kg - 29 steps per min.

### Low unit weight

At just 16 kg, (20 kg with quick-change battery pack) the LIFTKAR SAL is the lightest stairclimber in the world.





# LIFTKAR SAL Uni & Ergo

SWIFT ON THE STAIRS. FAST ON THE FLAT.  
THE SPEEDY ALL-ROUNDER.

The Uni model resembles the classic hand truck and is designed especially for transporting heavy loads, drinks crates, copier paper and folders. The Ergo model allows you to maintain an upright posture on the stairs and keep maximum control over the goods being transported. Ideal for water cooler bottles, beer kegs, stacks of tyres, etc.

## The light lifter

Like the rest of the LIFTKAR SAL range, the Uni and Ergo models are characterised by their low weight. 16 kg without and 20 kg with quick-change battery unit. As a result you can handle transport jobs even easier and faster. The LIFTKAR SAL even assists you with a smoother ride outside, especially on bumpy construction sites. Different tyres can be fitted to match the unit to its operating conditions.

## Easy load transport

The real strengths of the LIFTKAR SAL are in rapid and straightforward transport on the level and on the stairs. That's cost-effectiveness. An investment that pays for itself quickly. The LIFTKAR SAL from SANDO is a true quality product.

## Overview of models and article numbers

### SAL 110:

Uni - Art. no. 030 702  
Uni pistol grip - Art. no. 030 728  
Ergo - Art. no. 030 705  
Ergo pistol grip - Art. no. 030 720

### SAL 140:

Uni - Art. no. 030 701  
Uni pistol grip - Art. no. 030 727  
Ergo - Art. no. 030 704  
Ergo pistol grip - Art. no. 030 719

### SAL 170:

Uni - Art. no. 030 721  
Uni pistol grip - Art. no. 030 729  
Ergo - Art. no. 030 722  
Ergo pistol grip - Art. no. 030 725



## LIFTKAR SAL UNI



**LIGHT AND MANOEUVRABLE. VERSATILE.**

The Uni model is based on the classic hand truck and is particularly suitable for transporting lockers, furniture, drinks, copier paper and files.



### ADAPT THE GRIPS TO YOUR CONDITIONS.

The models Uni, Ergo and Fold-L are available in 2 options: with pistol grips or with loop grips.



pistol grip



loop grip

## LIFTKAR SAL ERGO



**UPRIGHT POSTURE. MAXIMUM CONTROL.**

The Ergo model allows you to maintain an upright posture on the stairs, giving you maximum control over the goods being transported. Ideal for water cooler bottles, beer kegs, stacks of tyres and much more.



### All the advantages at a glance

- > extremely light and extremely fast - up to 48 steps per min.
- > even negotiates spiral staircases and landings where space is restricted
- > two speeds: slow / fast
- > intelligent lifting unit starts automatically when going down stairs
- > hinged toe plate mounting - fixed version also available
- > features sliding clutch and electronic overload protection
- > manoeuvrable like a hand truck, high-strength aluminium toe plate
- > extended battery life with optional second battery pack and in-vehicle charger for continuous operation

## LIFTKAR SAL FOLD-L



**SAFE AND KIND TO BACKS. ADJUSTABLE AND BALANCED.**

The LIFTKAR SAL Fold-L is perfect at balancing heavy loads while they are being transported. Ideal for large refrigerators, doors, windows, kitchen worktops, tiles and much more.



	SAL 110	SAL 140	SAL 170
Uni	030 702	030 701	030 721
Uni pistol grip	030 728	030 727	030 729
Ergo	030 705	030 704	030 722
Ergo pistol grip	030 720	030 719	030 725
Fold-L	030 757	030 758	030 759
Fold-L pistol grip	030 717	030 716	030 724
Fold	030 708	030 707	030 723

## LIFTKAR SAL FOLD



### IDEALLY ADAPTED TO THE LOAD.

The LIFTKAR SAL Fold is ideal for transporting white goods on the stairs such as washing machines, floor sanding machines, gas cylinders and much more. The patented folding mechanism enables the handles to be positioned ideally in relation to the load.



	SAL 110	SAL 140	SAL 170
Load capacity	110 kg	140 kg	170 kg
Climbing speed	approx. 48 steps / min.	approx. 35 steps / min.	approx. 29 steps / min.
Range in steps (depends on weight transported)	200 - 300 going up 400 - 600 going down		
Maximum step height	210 mm		
Weight with quick-change battery pack	20 kg		
Weight without quick-change battery pack	16 kg		

## OPTIONS

FULL POWER AT ALL TIMES. EQUIPPED FOR EVERY SITUATION.

Choose from an extensive range of extras and add-ons to make your LIFTKAR SAL the specialist unit for your specific line of work.



**Fixed toe plate, assembled**  
instead of hinged mounting (toe plate shown)  
Art. no. 930 103



**Tyres**  
puncture-proof tyres, Art. no. 930 119  
grey pneumatic tyres, Art. no. 930 109



**Wheel base extension**  
80mm wider, 1 pair  
Art. no. 930 111



**Bottle water attachement**  
for 6 bottles, mounted, fixed toe plate  
for 2 bottles, Art. no. 930 132



**Bar, center support**  
flat support surface  
Art. no. 930 133



**Centre bar**  
with extra crossbar  
Art. no. 930 105



**Wings for white goods, long**  
length: 860 mm, for Ergo, Uni and Fold-L, per pair  
Art. no. 930 131



**Wings for white goods, short**  
length: 344 mm, per pair  
Art. no. 930 126



**Battery pack retention arm**  
keeps the battery in place on bumpy ground  
Art. no. 930 140





## LIFTKAR SAL Fold & Fold-L

FIRM GRIP ON THE GOODS. NO BACK PAIN.  
THAT'S THE WAY TO DO IT!

Whether its compact floor sanding machines, tall oxygen cylinders or bulky stacks of chairs - with the Fold and Fold-L models you can keep the load balanced. This is the way to handle the most awkward transport jobs safely with an upright posture without straining your back.

The LIFTKAR SAL Fold is ideal for transporting white goods on the stairs. The patented folding mechanism enables the handles to be positioned ideally in relation to the load.

The Fold-L model is also designed to ensure perfect balance even with slightly heavier loads. Despite its low weight, the LIFTKAR SAL can easily manage really heavy loads. This is ensured by innovative design, patented technology as well as high quality materials and workmanship. The highest level of safety is provided by an electronic overload protection system, which ensures load capacity is not exceeded.

### Overview of models and article numbers

#### SAL 110:

Fold - Art. no. 030 708

Fold-L - Art. no. 030 757

Fold-L pistol grip - Art. no. 030 717

#### SAL 140:

Fold - Art. no. 030 707

Fold-L - Art. no. 030 758

Fold-L pistol grip - Art. no. 030 716

#### SAL 170:

Fold - Art. no. 030 723

Fold-L - Art. no. 030 759

Fold-L pistol grip - Art. no. 030 724



# ACCESSORIES

## EXTRAS AND ADD-ONS FOR YOUR STAIRCLIMBER



### Extra battery unit BU-SAL

BU-SAL 24 VDC, 5 Ah  
Art. no. 004 110



### Extra battery charger BC-PT

BC 100-230 VAC  
Art. no. 930 606



### In-transit charger BC 10-30 VDC-SAL

BC 10-30 VDC-SA  
Art. no. 930 600



### Battery holder with in-transit charger

including in-transit battery charger BC 10-30 VDC-SAL  
Art. no. 930 114



### Safety straps - 25 mm wide

1400 mm, 25 mm wide, Art. no. 930 006; 2700 mm, 25 mm wide,  
Art. no. 930 007; 3500 mm, 50 mm wide, Art. no. 930 123



### Twin bottle holder

Art. no. 930 107



### Keg hook

Art. no. 930 108



### Door and panel holder

for loads up to 150 kg  
Art. no. 930 153



### Lifting system

for loads up to 120 kg; lifting height 900 mm, Art. no. 930 173;  
lifting height 1100 mm, Art. no. 930 184



### Dolly systems

Dolly system SAL Ergo, Art. no. 930 172; Dolly system SAL  
Fold-L, Art. no. 930 192; Dolly system SAL Uni, Art. no. 930 166



### Guard plates

Guard plate Uni / Ergo / Fold-L, Art. no. 930 181  
Guard plate Fold, Art. no. 930 182



### Table platform

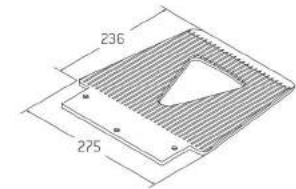
platform 600 x 590 mm, height 600 mm, incl. mounting pins  
Art. no. 930 129

# TOE PLATES

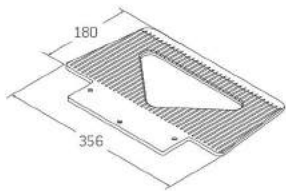
## EXTRAS AND ADD-ONS FOR YOUR LIFTKAR SAL

The LIFTKAR SAL is shipped without toe plate, but with a hinged toe plate mounting. You can choose which shapes of toe plate best suit your transport requirements.

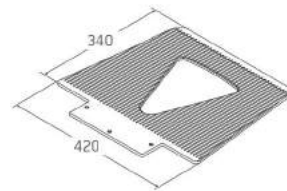
If you want to find out which shape of toe plate is exactly right for your application, then please do not hesitate to get in touch - we would be pleased to hear from you!



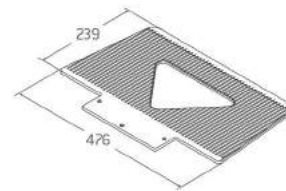
**Toe plate Standard** [275x236x7 mm]  
with grooves to prevent load slipping sideways  
Art. no. 030 025



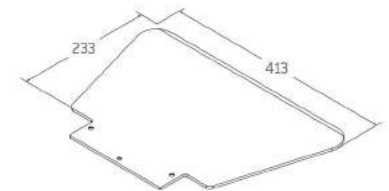
**Toe plate WL** [356x180x7 mm]  
suitable for white goods, refilling vending machines, etc.  
Art. no. 930 018



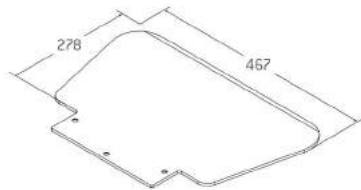
**Toe plate G** [420x340x7 mm]  
for large loads  
Art. no. 930 003



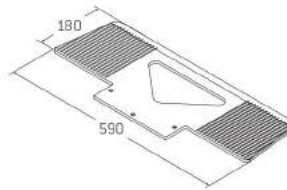
**Toe plate GS** [476x239x7 mm]  
used in the beverage industry for barrels and crates  
Art. no. 930 030



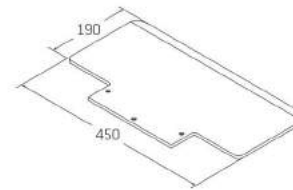
**V toe plate** [413x233x5 mm]  
to transport oxygen cylinders  
Art. no. 930 001



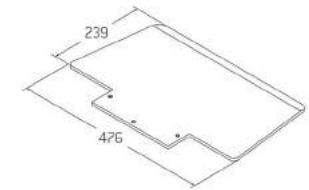
**Toe plate LH** [467x278x5 mm]  
like toe plate V, but larger  
Art. no. 930 002



**Toe plate XWL** [590x180x7 mm]  
also for white goods, feet stand on toe plate  
Art. no. 930 074



**Toe plate DS-NG** [450x190x7 mm]  
also for carton-packed goods  
Art. no. 930 085



**Toe plate GS-NG** [476x239x7 mm]  
for goods in cartons [e.g. beverage cans]  
Art. no. 930 084



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