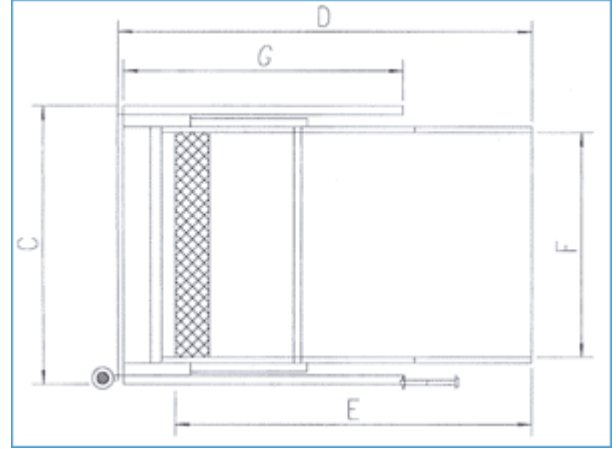
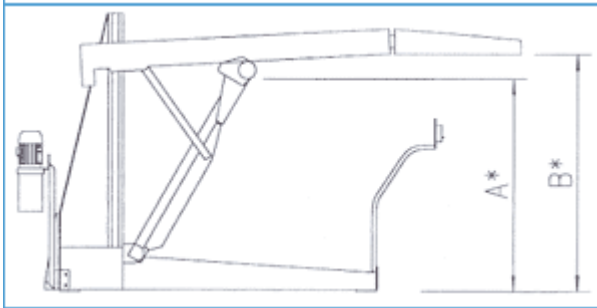
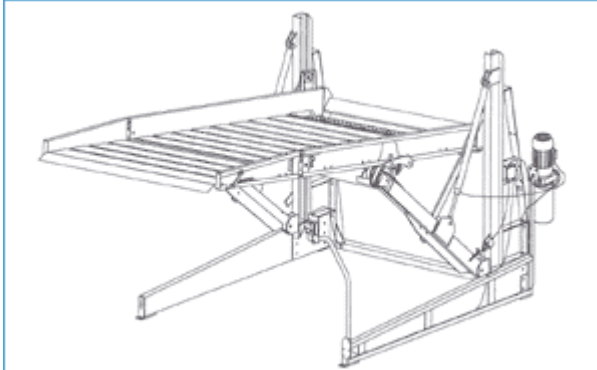


-OPTI LIFT-

Opti Lift units are ideal to double existing parking spaces for offices, residential homes, apartments, hotels, public and private parking lots, car collectors and dealers, for indoor and outdoor installations both.

- Lifting Capacity : **2500 kg**
- Installation Time: 1and half hrs.
- Unit structures of hot galvanized steel
- Hydraulic lifting with lateral cylinders
- Height ajustement
- Mechanical and hydraulic safety
- User operated
- Removable key control panel with IP 54 protection
- Single-phase electric motor 2,2Kw, IP54
- Installation without any site building works
- Low maintenance
- **CE** mark



MODEL	A	B	C	D	E	F	G
LOW NARROW	128	170	232	370	350	184	250
HIGH NARROW	169	200	232	370	350	184	250
LOW WIDE	128	170	249	370	350	200	250
HIGH WIDE	169	200	249	370	350	200	250

Field of application : In residential, office & business complexes, cars rentals, cars dealer. Ideally suited for permanent long-term parkers & for places where pits cannot be made but where clear height is available for parking two cars one above the other. Also where dependent parking is accepted and not a problem i.e. meaning that that if two cars are parked one above the other as shown in data sheet then the lower car would have to moved out first to retrieve the car on the upper level. All standard cars can be parked except sports cars with low suspensions

Models available :

- **model LN:** Used for low ceiling (min. 270 cm) and narrow parking stall (min. 232 cm);
- **model LW:** Used for low ceiling (min. 270 cm) and wide parking stall (min. 250 cm);
- **model HN:** Used for high ceiling (min. 315 cm) and narrow parking stall (min. 232 cm);
- **model HW:** Used for high ceiling (min. 315 cm) and wide parking stall (min. 250 cm);

System description : The car parking system has one platform, inclined at angles of 3.4° or 7.8° from ground depending of installation procedure and ceiling/cars high. The lower parking space can be accessed directly at floor level. The platform is equipped with a drive-on tire wedge for placing the car in position, tire cradle to ensure no cars movement if it is parked in neutral and tire stop to prevent any accidental driving mistake. These wedge, tire cradle and tire stop take care of cars of different lengths. The system has a left and right column support construction, which are firmly fastened to the floor feet shown in sheet. The platform is equipped with a torsion pipe bar to ensure platform evenness. Any accidental lowering of the upper platform is prevented by means of two different safety systems: electromechanical safety locking valve and mechanical safety locking hook . Both safety devices are active an in-alert always as required by EU regulation.

Installation involves the following parts :

A platform comprising of :

3 drive surface sheets, 1 fixed drive-on tire stop, 1 fixed tire cradle, 3 platform sheets reinforcing bars, 1 front drive on plate, 2 lateral platform arms , each with 1 guide rollers , 2 angle adjustment bars plate, mechanical safety locking hook, and fastening material.

Support construction comprising of :

2 columns supports, 1 lateral cross brace, 2 lifting arms, 1 torsion bar pipe, pins (C40 steel quality), rollers (PA6 self greasing zelamit), bolts (8.8 grade) and nuts (6S grade) Hydraulic parts comprising: 2 hydraulic single effect, tropicalized cylinders, a Electro-hydraulic magnetic valve equipped with EMERGENCY MANUAL PLATFORM LOWERING DEVICE, hydraulic fittings, high pressure hydraulic hoses (rated at 500 bar) and fastening materials. Electrical parts: Control device with EMERGENCY OFF switch and spring loaded key selector panel with 2 keys and platform raising limit switch.

Hydraulic power pack :

STANDARD: micro hydraulic power pack; 2.2KW, 220V Single phase, 50/60Hz, the ready wired switching box with relays pressure limiting valves

COMMERCIAL: Centralized group hydraulic power pack; 4HP, 3kW, 220/380V tri phase, 50/60Hz, the ready wired switching box with relays pressure limiting valves / can run up to 10 units, one each time.

System operations :

The cars are parked as shown in 2 levels one above the other. The lower car is parked on the ground and the upper car on the platform above. The lower space is emptied out and the platform lowered by means of operating switch. Once in the lowered position the car is driven onto the platform. Then spring loaded key selector is turned to lift the car through hydraulic lifting mechanism. Once the car is at the proper height dictated by platform raising limit switch then it is mechanically locked in position securely. At this point even if the spring loaded key selector is still turned, the platform do not move. Then the lower space can be utilised to park another car. No remote control possible only local through personal keys.

Advantages :

- Very minimal construction height required.
- Access on slightly inclined platform – this reduces height of construction
- Perfect synchronism between lifting and lowering movements to torsional bar.
- Systems can be arranged intelligently so that hydraulic units in groups are possible and economic if more than 10 units are driven with single hydraulic pack. This reduces cost.
- Low power requirements. Approx. only 1 kW consumed per cycle.
- Intelligent sheet metal technology – screw connections – no site welding.
- Biodegradable hydraulic oil used – environmentally friendly.
- Systems are mobile in nature – they can be shifted without much cost and difficulty if the need arises.
- No foundation needed .
- Floor flatness : +/- 1%
- Self loading bearing structure.

Safety features :

- All safety compliances as per requirements European Union (EU) standards
- dead man” control systems for operations – the system is in operation only for the period the operating switch is pressed by operator. The system stops as soon as the contact from control switch is broken. This ensures virtually foolproof security against any accidents or accidental damage to the car.
- Mechanical locking device to prevent damage against accidental lowering of car in upper level.
- Electro hydraulic locking safety device in alert always.
- Oil fluid restriction orifices installed in the hydraulic cylinder in/out connection;
- Electric limit switch that stop platform raise at the adjusted position ;
- Manual EMERGENCY relief descend flow valve;
- No lifting chain and/or cables are used in OPTI LIFT series .

Corrosion Protection : ElectroStatic oven paint ; Complete steel structure Driving sheets Fasteners etc. Very good corrosion protection. Can be used in rough weather conditions very safely with low maintenance requirements.

Maintenance : Very low maintenance requirements – highly reliable technology.

Power requirement :

- Very low power requirements. Each unit has a 2.2 kW motor.
- If power fluctuations more than 10% -voltage – stabilizer recommended

Architectural features and possibilities :

- Very low construction heights used to accommodate two cars. Highly suited for places where constraints of height of construction are there. 2 cars can be parked requiring a construction height of approx. 9.2 feet only.
- Most convenient low cost option for providing dependent parking
- Very safe and user friendly
- For large requirement several such systems can be installed adjacently
- Platforms of varying length are possible depending on car to be parked.
- Systems for varying car heights are also possible to design depending upon space constraints
- Compact and precise arrangement of cars for parking saves valuable space
- Very suitable for existing/old building structures where space constraints severely limit construction of extra parking space
- Hydraulic power packs and control systems can be mounted on walls, hollow spaces in walls, to reduce space requirements.