

# WÖHR PARKLIFT 421 S

## Specification

- General:** Car parking system for dependent parking of three cars above each other. For dimensions please see data sheet [Parklift 421](#) with its dimensions for length, height and width.  
This car parking system has two horizontal platforms, each for one car each. The lower parking space is on the floor right underneath.  
Both platforms have a wheel stop for the correct positioning of the car. Guided by the operating instruction the user has to adjust the wheel stop to his car.  
If the wheel stop is taken away the platform could be overdriven to reach parking places positioned behind the system. First the upper platform is used, then lifted up to automatic stop in the middle position. Here, the upper platform is already fixed by a mechanical lock to avoid unintentional lowering. Now the lower one is used. The upper platform is lifted together with the lower platform until the upper position is reached. Again the mechanical lock fixes their position to avoid an unintentional lowering. Then the cars parked on the floor surface.  
Operation according to the "hold-to-run" device (control device which automatically returns to the "off" position after release) with identical keys, two per parking space. The operating device is usually located at the front side of columns or outside at the door panel. An operating instruction is clearly visible and permanently fixed above each operating device.
- Design and description:** The Parklift consists of two pillars fixed on the floor.  
The two hydraulic cylinders lift move the platforms guided in the pillars whereas the second platform is mechanically lifted when the lifting passes the middle position.  
The mechanical synchron run is ensured by a torsion bar via the uppermost (top) platform.  
An automatic mechanical lock avoids unintentional lowering from each lifted endposition.
- Components:** Two platforms consisting of:  
8 or 10 driving plates, two adjustable wheel stops, four side panels and cross bars, screws, nuts etc  
Synchronizing device:  
One torsion bar with two pinion shafts and one middle shaft, fixing material etc.  
Supporting structure consisting of:  
Two pillars with two hoisting slides each, of that middle slide with guidings for the upper slide, dowels, screws etc.  
Hydraulic components:  
Two hydraulic cylinders, magnetic valve, hydraulic pipes, fixing material.  
Electric parts:  
Operating device with Emergency Stop button and key-lock.
- Standards:** WÖHR Car Parking Systems are machines according to the Council Guideline governing machinery 2006/42/EC, Annex 1 and EN 14010.
- Corrosion protection:** For details please see enclosed information [Surface protection 2011](#), No. 023-0021.
- Hydraulic power pack:** One hydraulic power pack can drive several Parklifts provided that they are arranged side by side.  
Each Parklift is controlled individually at its operating device.  
The electric motor with pump is mounted rubber-bonded-to-metal. The hydraulic power pack consists of an oil tank with appropriate filling for the entire system, gear pump, electric motor (5.5 kW 230/400 V, 50 Hz), witch box with motor contactor and thermal relay already wired for connection, pressure relief valve and one hydraulic hose reducing the noise transmission to hydraulic pipes.
- Provided by customer:**
1. Electric work according to enclosed data sheet [Parklift 421](#) (supply lines with lockable main switch to hydraulic power packs)
  2. Acceptance by authorised inspector, if required together with a fitter, if not included in offer
  3. Additional corrosion protection, if required by architect/customer
  4. Railings and safety fences according to EN ISO 13857 concerning the building structure
  5. Marking at a distance of 50 cm to front edge of platform, 10 cm wide, yellow-black according to ISO 3864, if required
  6. Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25

Enclosure: [Surface protection 2011](#), Nr. C023-0021.

The manufacturer reserves the right to modify or alter above specifications.

OTTO WÖHR GMBH  
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