

Data Sheet WÖHR PARKLIFT 421



Dependent parking

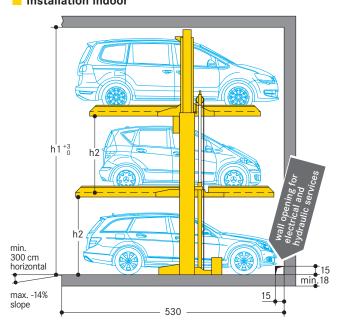
For permanent user only! In case of short time user (e.g. for office-, hotel-, commercial building) only possible on lower parking space and only if technically adjusted, ask WÖHR! Or with attendant or valet parking all levels are possible for short time user.

Parklift 421-2,0: Load per platform max. 2000 kg (load per wheel max. 500 kg)

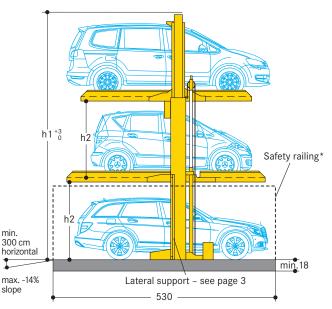
or:

Parklift 421-2,6: Load per platform max. 2600 kg (load per wheel max. 650 kg) Dimensions in cm

Installation indoor



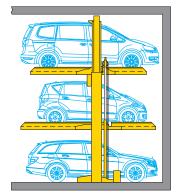
Installation outdoor

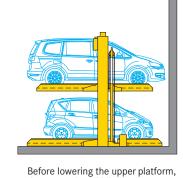


* Rear and lateral site safety railing, compliant to the DIN EN ISO 13857 standard requirements, is to be supplied by the customer. The height of the safety railing is dependent on the distance from the moving parts.

	Parklift 421-500	Parklift 421-530	Parklift 421-560	Parklift 421-590		Parklift 421-500	Parklift 421-530	Parklift 421-560	Parklif 421-59
Height h1	500	530	560	590	Height h1	500	530	560	590
Height h2	155	165	175	185	Height h2	155	165	175	185
Car height	150	160	170	180	Car height	150	160	170	180

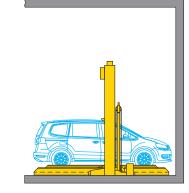
Function





the car on the middle level must

also be driven off!



Before lowering the platforms, the car on the entrance level must be driven off!

Notes

- 1. Clear platform width of 250/260 cm for car widths of 190 cm. For large touring sedans we recommend a clear platform width of at least 260/270 cm.
- 2. According to ISO 3864 the floor has to be marked with 10 cm wide yellow-black stripes at a distance of 35 cm from the platform edge by the purchaser (see "statics and construction requirements" on page 2).
- 3. It is not possible to have channels or undercuts and/or concrete haunches along the floor-to-wall joints. In the event that channels or undercuts are necessary, the system width needs to be reduced or the installation width needs to be wider.
- 4. The manufacturer reserves the right to construction or model modifications and/or alterations. Furthermore, the right to any subsequent part modification and/or variations and amendments in procedures and standards due to technical and engineering progresses in the art or due to environmental regulation changes, are also hereby reserved.

Width dimensions · Installation indoor

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm.

Access to the garages to be minimum 300 cm horizontally, with a slope level of maximum -14 %.

Single unit

270

280

290

300

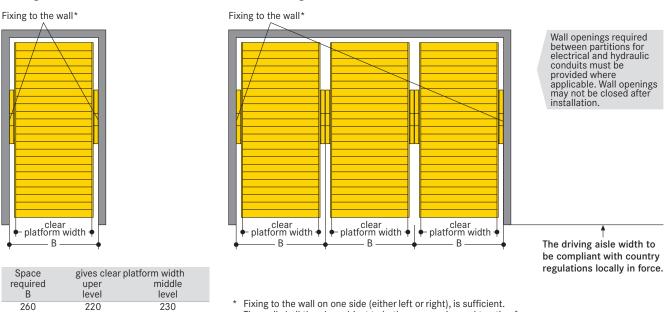
230

240

250

260

Row arrangement



* Fixing to the wall on one side (either left or right), is sufficient. The wall shall then be subject to both compressive and traction forces (see statics and construction requirements). With a two-sided fixing system, the wall shall only be subject to compressive forces.

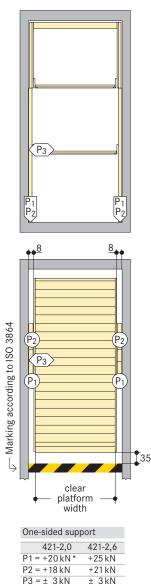
Statics and construction requirements · Installation indoor

240

250

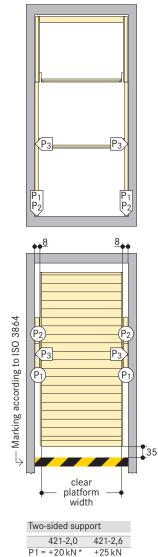
260

270



PARKLIFT 421 | 10.2017 | C027-4132 | © WÖHR Autoparksysteme GmbH

02

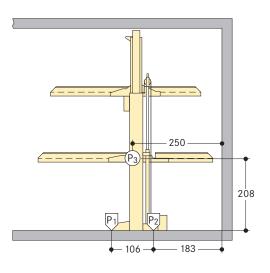


P2 = +18 kN

P3 = + 3 kN

+21 kN

+ 3 k N



The system units are locked onto the construction frame points of support using heavyduty dowels (having a drilling depth of 10 to 12 cm).

Base plate thickness minimum 18 cm! Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

Special foundations are required with asphalt floors or paving-stones.

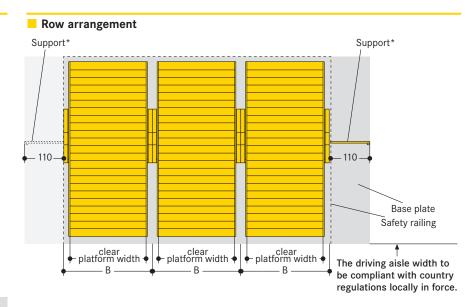
* all static loadings include the weight of the car

Width dimensions · Installation outdoor

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm.

Access to the garages to be minimum 300 cm horizontally, with a slope level of maximum -14 %.

Single unit Support* Support* 110 110 clear - platform width



Space required	gives clear platform width				
required	uper	middle			
В	level	level			
260	220	230			
270	230	240			
280	240	250			
290	250	260			
300	260	270			

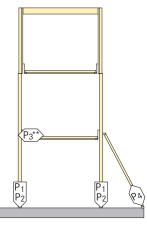
В

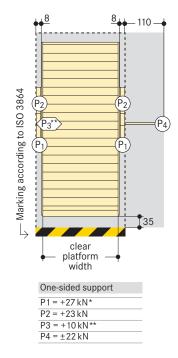
A one-sided support (either left or right) is sufficient. The base plate shall then be subject to both compressive and traction forces (see statics and construction requirements). With a two-sided support system the base plate shall only be subject to compressive forces.

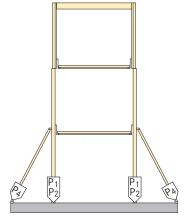
Statics and construction requirements · Installation outdoor

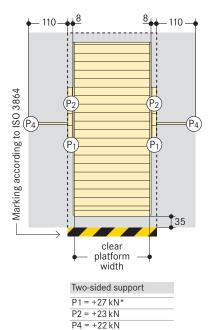
Base plate

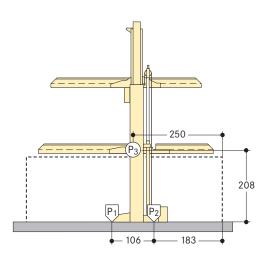
Safety railing











The system units are locked onto the construction frame points of support using heavyduty dowels (having a drilling depth of 10 to 12 cm).

Base plate thickness minimum 18 cm! Concrete quality according to the static requirements of the building, but for the dowel fastening we require a concrete quality of min. C20/25.

Special foundations are required with asphalt floors or paving-stones.

For outdoor installation sidewise supporting is necessary; available against additional charge.

The wind load compliant to DIN 1055 Part 4 amounts to 0.5 kN/m².

The snow load compliant to DIN 1055 Part 5 amounts to 0.75 kN/m².

- * all static loadings include the weight of the car
- ** P3 (compressive and traction forces) only occur when the system is anchored to a building on one side. If the system is anchored to a building, lateral support (P4) can be omitted.

E	lectrical	datas			
Item	Performance	Quantity	Designation	Position	Frequency
1	by customer	1 unit	electric meter	in the feed cable	
2	by customer	1 unit	fuse or automatic circuit breaker 3 x 25 A slow blow acc. to DIN VDE 0100 p. 430	in the feed cable	1 per powerpack
3	by customer	as locally required	acc. to local power supply regulations 3 Ph + N + PE*	feed cable to main switch	1 per powerpack
4	by customer	each 10 m	equipotential bonding sa- fety lead-out connection	comerpit floor/ rear wall	
5	by customer	1 unit	equipotential bonding sa- fety compliant to the DIN EN 60204 standard	from the lead-out connection to the system	1 per Parklift
6	by customer	1 unit	marked main switch, lockable to prevent unauthorized switching on	above operating device	1 per power pack

tective conductor 5 x 2,5² pack Items 8–16 are included in WÖHR's scope of delivery unless otherwise specified in the offer/order.

from main switch

to hydraulic power

enable our fitters to complete

their work satisfactorily and to

check the correct functioning

In compliance with the DIN EN

60204 standard provisions, all

directly on site with an earthed

equipotential bonding. The lead-

systems must be connected

out connection must be at a

- solid ceiling above the

At differing constructional

absorbing measures are

conditions additional sound

to be provided by the customer.

The best results are reached

by separated sole plates from

Increased noise protection:

If increased noise protection

to be confirmed on a project

must be provided planning has

 $m' = 400 \text{ kg/m}^2$

the construction.

basis by WÖHR.

parking systems with min.

of the units.

10 m distance!

1 per

power pack

PVC control cable with

marked strands and pro-

* DIN VDE 0100 part 410 + 430 (not under permanent load) 3PH+N+PE (three-phase current) Note: Where a door is used to close the garage, the manufacturer of the door must be consulted before the electric cable is laid.

The electrical components suppliedbythemanufacturer must be connected in accordance with the appropriate wiring diagram and local regulations. German VDE electrical requirements must be adhered to, in order to validate the TÜV tested circuit.

7

by customer 10 m

The electrical supply to the power pack(s) must be provided prior to or during installation to

Noise protection

Basis is the German DIN 4109 "Noise protection in buildings".

With the following conditions required 30 dB (A) in rooms can be provided:

- noise protection package from our accessory
- insulation figure of the construction of min. R'_W = 57 dB
- walls which are bordering the parking systems must be done as single wall and deflection resistant with min. m'= 300 kg/m²

Temperature

The installation is designed to operate between $+5^{\circ}$ and $+40^{\circ}$ C. Atmospheric Humidity: 50% at $+40^{\circ}$ C. If the local circumstances differ from the above please contact WÖHR.

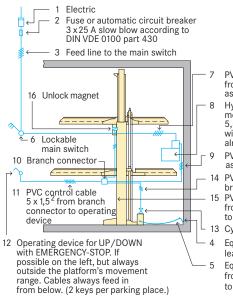
Hydraulic power packs

For the accommodation of the hydraulic power packs an additional space is required which will be determinded during the verifications of the drawings, e.g. in a wall recess.

Dimensions

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm.

Installation diagram



PVC control cable 5 x 2,5² from main switch to assembly

- Hydraulic unit with three-phase motor, 230/400V, 50Hz, 5,5 kW. Switching cabinet with motor, protection, wired already for installation
- PVC control cable 5 x 1,5² from assembly to branch connector
- 4 PVC control cable 3 x 1,5² from branch connector to valve
 15 PVC control cable 3 x 1,5²
- FVC control cable 3 x 1,5° from branch connector to unlock magnet
 Cylinder valve
- Equipotential bonding safety lead-out connection
- Equipotential bonding safety from the lead-out connection to the system

Conformity test

All our systems are checked according to EC machinery directive 2006/42/EC and EN 14010.

Railings

If walkways are arranged directly to the side or behind the systems, railings have to be provided acc. EN ISO 13857 by client acc. to local requirements, height min. 200cm.

Notes

In case of lower cars with spoilers, contact Company WÖHR or local agent (see "clearance profile").

Maintenance

WÖHR and our foreign partners have an assembly and customer network. Annual maintenance is performed at conclusion of a maintenance contract.

Protection against corrosion

Independent of a maintenance workings has to be carried out acc. to WÖHR Cleaning and Maintenance Instruction regularly.

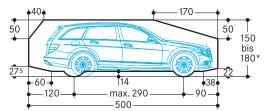
Clean up galvanized parts and platforms of dirt and road salt as well as other pollution (corrosion danger)!

Pit must be always ventilated and dearated well.

Fire safety

Each and every fire safety requirement and all possible mandatory item(s) and equipment(s) (fire extinguishing systems and fire alarm systems, etc.) are to be provided by the customer.

Clearance profile (standard car)



* The total car height includes roof rail and antenna fixture must not exceed the mentioned max. height dimension.