



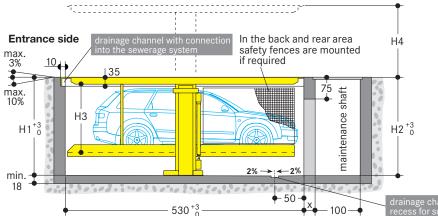
Data Sheet Wöhr Parklift 461 462 463

Suitable for private houses, condominium and for retrofitting of old buildings. For permanent use only! Horizontal even platforms.

Platform load max. 2000 kg (wheel load max. 500 kg).

For single units a platform load with max. 2300 kg (wheel load max. 575 kg) is available against additional charge.

Parklift 461

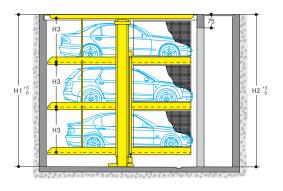


	pit d front H1	epth rear H2	platform distance H3	height H4	max. car heigh
Parklift 461	250	255	170	210	165
	285	290	205	245	200
Parklift 462	425	430	170	385	165
	495	500	205	455	200
Parklift 463	605	610	170	565	165

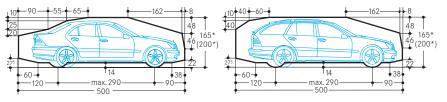
Parklift 462

H1⁺³ H3 H3 H2⁺³

Parklift 463



Clearance profile (standard saloon/estate car)



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

Examples (03.2008)

Cars up to 165 cm height: e.g. MB A-class, E-class estate, B-class; Opel Omega, Astra; VW Golf V

Cars up to 200 cm height: e.g. Ford Galaxy: Opel Sintra, Re

e.g. Ford Galaxy; Opel Sintra, Renault Espace; VW Sharan

Notes

- 1. Car width max. 190 cm (see width details page 2). For cars with two outside mirrors, a minimum platform width of 250 cm is recommended.
- 2. The upper platform is a welded construction (manufactured acc. to EN ISO 13920 with the tolerance class C). Finishes are available at the customers request, for example sand bedding/pavement slabs, sand bedding/pebbles, topsoil/lawn a.s.o. Please contact Wöhr for details of maximum allowed loadings.
- When lowered, the upper platform is even to loor level and can be driven over by cars (max. weight 2500 kg, wheel load max. 625 kg).On special conditions the upper platforms of Parklift 461 and 462 may be used as parking places please contact Wöhr.
- 4. In case higher loading is required e.g. passage for fire brigade, please contact Wöhr.
- 5. A locked key arrangement ensures that the unit is always left in the lowered position after each use.
- 6. A separate maintenance shaft with ladder is required. A safe maintenance access with a door has to be provided by the customer please contact Wöhr. This shaft is important for ventilation and passage to the pit and can also house the hydraulic power pack.
- 7. At the edge of the pit a 10 cm wide, yellow-black marking according to ISO 3864 has to be provided by the customer (see "statics and construction requirements" on page 3).
- 8. The manufacturer reserves the right to modify or alter above specifications.





Width dimensions

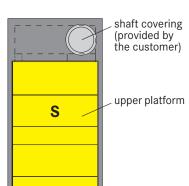
All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions in cm. Alle Maße in cm.

The access to the Parklift is possible with max. 3% declination and max. 10% inclination.

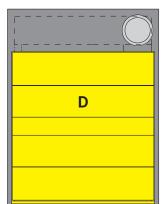
If not stated differently in the offer, platform widths of 230cm or 460cm will be delivered. Bigger/smaller platform widths can be delivered at additional price.

Top view closed pit

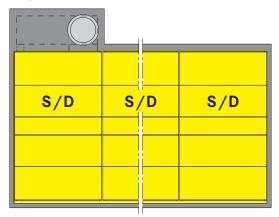




Double unit

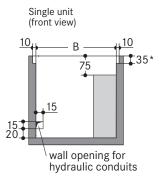


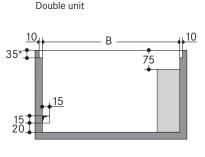
Row arrangement (Single- and Doubleunits are combinable)



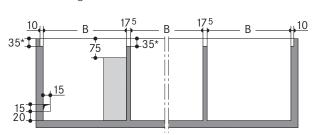
Entrance side

Pit dimensions





Row arrangement



* Measure 35 cm upon upper edge platform pavement

-0,35

walls

80

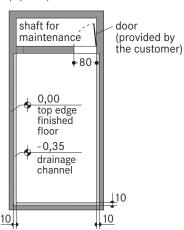
40

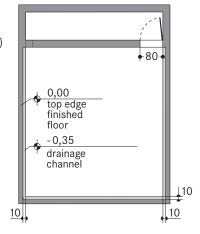
175

partition

10

(top view)





	+80 +		
,	0,00 top edge finished floor		
	-0,35 drainage channel passage**	80	
10	passage	175	

rking	n width upper	
vels	platform	
230	290 300	
250	310	
260	320	
270	330	

Space required B	gives clear platform width parking upper levels platform	
505	460	520
525	480	540
545	500	560

** The passageway to the neighbour units must have the identical height like the passageway of the maintenance shaft in the pit.

A rectangular angle is required from the sidewalls to the front side. Max. tolerances are 1 cm!

Important notes

Attention:

Space required B

275

285

295

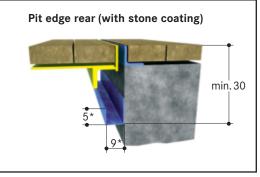
305

315

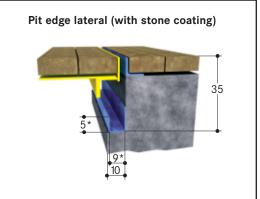
If sides or the back are freely accessible, a safeguard is necessary (safety fences, marking, electrical hauling cable counter, or similar). This is planned dependent on project.

Belf maximum platform widths are not installed, difficulties might arise when entering or exiting the cars on the parking units. This depends on the car type, the access and the individual driving behaviour.

Cars wider than 190 cm should be parked on platforms 270/500 cm width only for entering/exiting at drivers position.



Pit edge entrance side (with stone coating) bordering angel (supplied by the customer) 10 sealing and stone 35 coating (supplied by the customer) max. 250 kg/m²yellow parts are included in delivery 10 circular drainage 12 * channel (supplied by the customer)



Statics and construction requirements

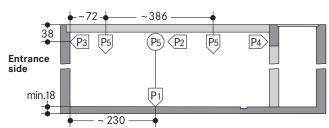
Bearing loads are transmitted to the pit floor by base plates, fixed by heavy duty anchor bolts to a depth of approximately 10–12cm. When fixing to waterproof concrete floors chemical anchors are employed (to be advised by Wöhr). Slab thickness and rear wall thickness minimum 18cm (recommended concrete quality C20/25). The walls of the pit must be formed of concrete and must be perfectly

flat and vertical without any protrusions. Tolerance in the evenness and angularity must be taken additionally into consideration.

The specified lengths to the support points are mean values.

Please contact us for exact positions for any variations on the standard units.

Section

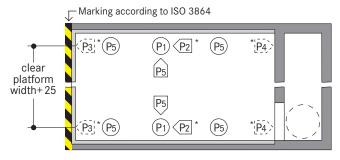


Statics

Parklift 461

Single unit	Double unit
P1 = + 86 kN**	P1 = + 142 kN (upper platform with stone coating)
$P2 = \pm 13 kN$	$P2 = \pm 16 \text{ kN}$
P3 = + 13 kN	P3 = + 16 kN
P4 = + 13 kN	P4 = + 16 kN
P5 = + 11 kN	P5 = + 11 kN

Top view



The force P2 is only given when the pillars are fitted to the side walls. The forces P3 and P4 come only into effect when the pillars can not

be fitted to the side walls.

** All static loadings include the weight of the car

Parklift 462

Single unit	Double unit	
P1 = + 110 kN**	P1 = + 178 kN	(upper platform with stone coating)
$P2 = \pm 9 kN$	$P2 = \pm 12 kN$	
P3 = + 9 kN	P3 = + 12 kN	
P4 = + 9 kN	P4 = + 12 kN	
P5 = + 12 kN	P5 = + 12 kN	

Parklift 463

Single unit	Double unit
P1 = + 113 kN**	P1 = + 215 kN (upper platform with stone coating)
P2 = ± 8 kN	$P2 = \pm 11 \text{ kN}$
P3 = + 8 kN	P3 = + 11 kN
P4 = + 8 kN	P4 = + 11 kN
P5 = + 13 kN	P5 = + 13 kN

Electrical data

Item	Performance	Quantity	Designation	Position	Frequency
1	by customer	1 unit	electric meter	in the feed cable	
2	bauseits	1 Stück	fuse or automatic circuit breaker acc. to DIN VDE 0100 p. 430 - 3 x 25 A slow blow (5.5 kW power pack) - 3 x 40 A slow blow (2 x 5.5 kW power pack)	in the feed cable	1 x per power pack
3	by customer	as locally required	acc. to local power supply regulations 3 Ph + N + PE*	feed cable to main switch	1 per power pack
4	by customer	1 unit	separate feed cable (230 V) with lighting and power outlet	from feed cable into the mainte- nance shaft	1 x per Parklift
5	by customer	1 unit	marked main switch, lockable to prevent unauthorized switching on	outside the pit, max. 20 m away from operating device	1 x per power pack
6	by customer	as locally required	PVC control cable with marked strands and protective conductor 5×4^2	from main switch to hydraulic power pack	1 x per power pack
7	by customer	each 10 m	foundation earth connector	comer pit floor/ rear wall	
8	by customer	1 unit	equipotential bonding acc. to local requirements	from foundation earth connector to Parklift	1 per Parklift
9.1	by customer	as locally required	empty pipe DN40 with taut wire	base pit/operating device	1 x per Parklift
9.2	by customer	as locally required	empty pipe DN40 with taut wire	for feed cable to power pack	1 x per Parklift
10	by customer	as locally required	,		1 x per Parklift

Items 11–17 are included in Wöhr's scope of delivery unless otherwise specified in the offer/order.

* DIN VDE 0100 part 410 + 430 (not under permanent load) 3 PH + N + PE (three-phase current)

The electrical components supplied by the manufacturer 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.

The electrical supply to the power pack(s) must be provided

prior to or during installation to enable our fitters to complete their work satisfactorily and to check the correct functioning of the units.

Parklifts has to be grounded to the foundation earth connector by customer. A foundation earth connector should be provided by customer each 10 m or acc. to local requirements.

Noise protection

The basis is the German DIN 4109 »Noise insulation in buildings«. According to DIN 4109 equipment, machinery and plant used in joint

technical facilities in buildings must be provided with adequate protection against air-borne and solid-borne sound.

Temperature

The installation is designed to operate between +5°and +40°C. Atmospheric Humidity: 50% at +40°C. If the local circumstances differ from the above please contact Wöhr.

Operating device

The position of the operating device depends on the project (switch post, house wall). From

bottom of the shaft to the operating device an empty pipe DN40 with taut wire is necessary.

Installation of the main columns

For the installation of the main columns a crane has to be provided by the customer. Parklift 461: hook clearance min. 300 cm over height of entrance, crane load approx. 700 kg. Parklift 462 and 463: hook clearance min. 600 cm over height of entrance, crane load approx. 1400 kg

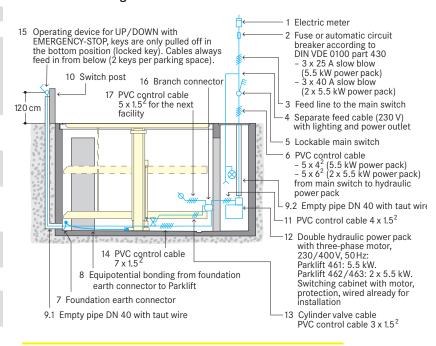
Conformity test

All our systems are checked according to EC machinery directive 98/37/EG and EN 14010.

Dimensions

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

Installation diagram



Hydraulic power pack

The power pack will be placed in the shaft for maintenance.

Illumination

Illumination has to be considered acc. to local requirements by client. Illumination in the shaft for maintenance minimum 80 Lux.

Railings

During the building phase the pit has to be safeguarded by the customer.

Drainage (to be performed by the customer)

- At the pit edge drainage channel formed in the concrete with connection to the sewerage system is necessary (see page 1).
- For locations with particularly exposed conditions we recommend an additional drainage channel around the outside of the pit.
- We recommend the provision of a drainage channel at the rear of the pit which can either incorporate a pump sump
- 50 x 50 x 20, or a connection into the sewerage system. Lateral slope only formed within the gutter.
- 4) To prevent any possibility of contamination of the ground water we recommend giving the pit floor an oil resistant coating as a means of protecting the environment. If this is to be connected to the sewrage system, it is advisable to provide oil and/ or petrol separators.

Ventilation

We recommend to provide a ventilation system in consultation with heating/ventilation/air conditioning engineers with the aim of obtaining continuous air exchange, reducing air humidity,

preventing condensate and reducing moisture from cars (rain, snow, ice etc.). This helps considerably to reduce or to prevent corrosion and malfunctions due to corrosion.

Maintenance

Regular maintenance by qualified personnel can be provided by means of an Annual Service 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.

Maintenance Shaft

A separate shaft for maintenance with an entrance to the pit is necessary. On serial garages a shared maintenance shaft may be suitable but will depend on individual projects. The covering and ladder for the shaft is the clients responsibility.