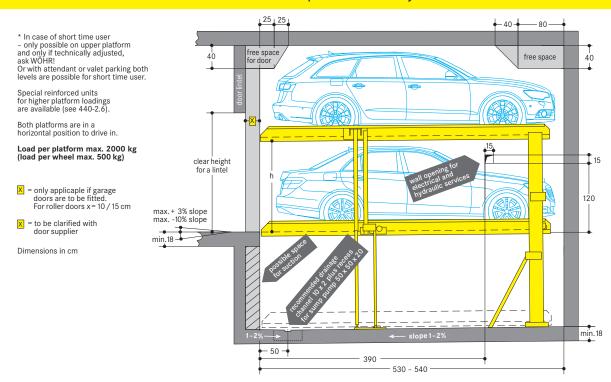
Data Sheet Wöhr Parklift 440-2,0

Single unit = 2 cars

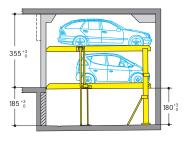
Double unit = 4 cars

Suitable for condominium and office buildings.

For permanent use only!*



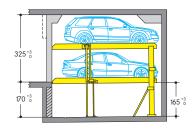
Standard type 440-185/180 · 2000 kg



	car height	distance (h)
Upper level	saloon/estate cars up to 165 cm	
Lower level	saloon/estate cars up to 165 cm	170

Clear height of 340 cm is sufficient, if just cars up to a height of 150 cm shall be parked on the upper level

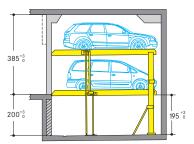
Compact type 440-170/165 · 2000 kg



	car height	distance (h)
Upper level	saloon/estate cars up to 150 cm	
Lower level	saloon/estate cars up to 150 cm	155

Please attend to restricted car- and platform distance height!

Comfort type 440-200/195 · 2000 kg



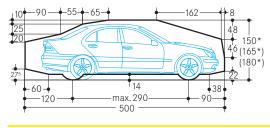
car height distance (h)

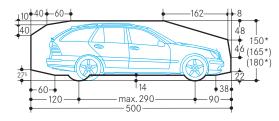
Upper level cars/vans up to 180 cm
and max. 2000 kg

Lower level cars/vans up to 180 cm 185
and max. 2000 kg

Clear height of 355 cm is sufficient, if just cars up to a height of 150 cm shall be parked on the **upper level**.

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.

Notes

- Car width max. 190 cm (see width details page 2). In case of special platform widths narrower than 230 and 460 cm respectively, the maximum vehicle
 width is reduced accordingly. For cars with two outside mirrors, a minimum platform width of 250-270 cm or 500-540 cm is recommended.
- 2. Due to recent increases in car length dimensions, and potential future developments, a pit length of 540 cm is advisable. This offers bigger safety distances also for future cars.
- 3. At the edge of the pit a 10 cm wide, yellow-black marking according to ISO 3864 has to be provided by the purchaser (see "statics and construction requirements" on page 3).
- 4. It is not possible to have channels or undercuts and/or concrete haunches along the pit floor-to-wall joints. In the event that channels or undercuts are necessary, the system width needs to be reduced or the pit needs to be wider.
- 5. The manufacturer reserves the right to modify or alter above specifications.

Wohr Parking Systems Pvt. Ltd.

Gat No.1098, Urawade Road, Pirangut, Tal. Mulshi, Dist. Pune - 412 115 Maharashtra, India +91 206 674 8848 www.wohrparking.in

Width dimensions · Underground garages

All dimensions shown are minimum. Construction tolerances must be taken into consideration. All dimensions 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 230 cm or 460 cm will be delivered. Bigger/smaller platform widths can be delivered

With platform widths 250, 260 and 270 cm special reinforced units with max. platform loading capacity of 2.300 kg are available for big limousines e.g. Mercedes-Benz S-class

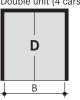
Wall to wall





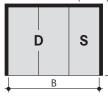
Space required B	gives clear platform width
260	230
270	240
280	250
290	260
300	270

Double unit (4 cars)



Space required B	gives clear platform width
490	460
510	480
530	500
550	520
570	540

Combinated unit (6 cars)



Space required

750

780 810

840

Wall openings required between partitions for electrical and hydraulic conduits must be provided where applicable. Wall openings may not be closed after installation.

> The driving aisle width to be compliant with country regulations locally in force.

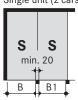
be compliant with country regulations locally in force.

regulations locally in force.

870 540+270 Further width combinations as well as smaller widths are possible

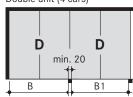
Pillars outside pit

Single unit (2 cars)



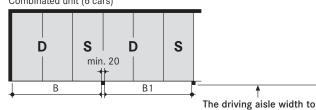
Spa wa pill E	II- ar	equired pillar- pillar B1	gives clear platform width
25	0	240	230
26	0	250	240
27	0	260	250
28	0	270	260
29	0	280	270





Space r wall- pillar B	equired pillar- pillar B1	gives clear platform width
480	470	460
500	490	480
520	510	500
540	530	520
560	550	540

Combinated unit (6 cars)



gives clear

platform width 460+230

480+240

500 + 250

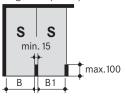
520+260

Space r wall- pillar B	required pillar- pillar B1	gives clear platform width
740	730	460+230
770	760	480 + 240
800	790	500+250
830	820	520 + 260
860	850	540+270

Further width combinations as well as smaller widths are possible

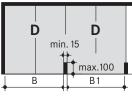
Pillars inside pit

Single unit (2 cars)



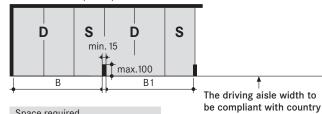
Space r wall- pillar B	equired pillar- pillar B1	gives clear platform width
255	245	230
265	255	240
275	265	250
285	275	260
295	285	270

Double unit (4 cars)



Space r wall- pillar B	equired pillar- pillar B1	gives clear platform width
485	475	460
505	495	480
525	515	500
545	535	520
565	555	540

Combinated unit (6 cars)



required pillar- pillar B1	gives clear platform width
735	460+230
765	480+240
795	500+250
825	520 + 260
855	540+270
	pillar B1 735 765 795 825

Further width combinations as well as smaller widths are possible

Important notes

If 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 270/540 cm width only.

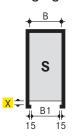
For spaces against walls, or at end of rows, we recommend that largest possible platform widths are utilized to assist turning motion.

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 230 cm or 460 cm will be delivered. Bigger/smaller platform widths can be delivered

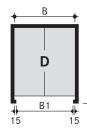
With platform widths 250, 260 and 270 cm special reinforced units with max. platform loading capacity of 2.300 kg are available for big limousines e.g. Mercedes-Benz S-class

Single garages (2 cars)



Space r B	equired B1	gives clear platform width
260	230	230
270	240	240
280	250	250
290	260	260
300	270	270

Double garages (4 cars)



Space required

490

510

530

550

570

В1

460

480

500

520

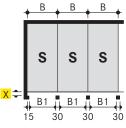
540

Wall openings required between partitions for electrical and hydraulic conduits must be provided where applicable. Wall openings may not be closed after installation.

x = for doors. See page 1

The driving aisle width to be compliant with country regulations locally in force.

Serial garages with single doors (2 cars)



Space r B	equired B1	gives clear platform width
260	230	230
270	240	240
280	250	250
290	260	260
300	270	270

Serial garages with double doors (4 cars)

gives clear

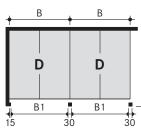
platform width

460

480 500

520

540

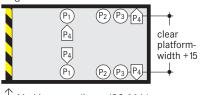


	equired	gives clear	
В	B1	platform width	
490	460	460	
510	480	480	
530	500	500	
550	520	520	
570	540	540	

The driving aisle width to be compliant with country regulations locally in force.

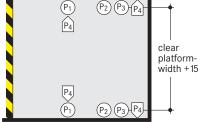
Statics and construction requirements







Double unit $(P_2)(P_3)(P_4)$



P1 = +66 kN- 6 kN $P2 = {}^{+} 3 kN$

P1 = +36 kN *

 $P2 = {}^{+} 2kN$

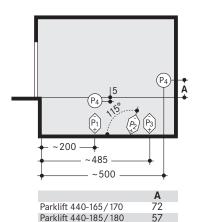
 $P3 = ^{+14 kN}_{-3 kN}$

P4 = + 3kN

- 7kN

- 3 kN

- 6 kN $P3 = ^{+23}kN$ - 3 kN P4 = + 3kN
- *all static loadings include the weight of the car



Parklift 440-200 / 195

Bearing loads are transmitted to the pit floor by base plates of approximately 140 cm2, fixed by heavy duty anchor bolts to a depth of approximately 10-12cm. Base plate thickness min. 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. When fixing to waterproof concrete floors chemical anchors are employed (to be advised by Wöhr).

The front wall of the pits must be formed of concrete and must be perfectly flat and vertical without any protrusions.

The specified lengths to the support points are mean values. Please contact us for exact positions for any variations on the standard units.

Hydraulic power pack

The location of the hydraulic power pack is determined according to your plan - space requirements are as follows:

Dimensions are in cm	1 – 5 Parklifts	6 – 10 Parklifts
Length =	100	150
Height =	140	140
Depth =	35	35

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 16 A slow blow acc. to DIN VDE 0100 p. 430	in the feed cable	1 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 powerpack
4	by customer	each 10 m	equipotential bonding sa- fety lead-out connection	comer pit 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
7	by customer	10 m	PVC control cable with marked strands and pro- tective conductor 5 x 1,5 ²	from main switch to hydraulic power pack	1 per power pack

Items 8-14 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) 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.

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.

In compliance with the DIN EN 60204 standard provisions, all systems must be connected directly on site with an earthed equipotential bonding. The lead-out connection must be at a 10 m distance!

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
- solid ceiling above the parking systems with min. m'= 400 kg/m²

At differing constructional conditions additional sound absorbing measures are necessary.

The best results are reached by separated sole plates from the construction.

Increased noise protection:

If increased noise protection must be provided planning has to be confirmed on a project basis by Wöhr (further building measures are required).

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.

Drainage

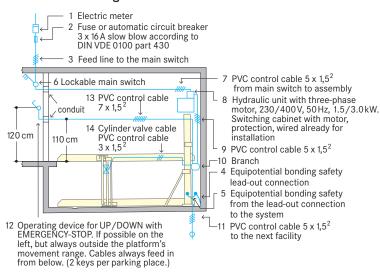
We recommend the provision of a drainage channel at the front of the pit which can either incorporate a pump sump $50 \times 50 \times 20$ cm, or a connection into the storm water sewerage system via a petrol/oil interceptor. If the pump sump is not

accessible for manual drainage, the client must provide a pump on site to empty the pump sump. To prevent any possibility of contamination of the groundwater we recommend that the pit floor is coated with an oil proof paint.

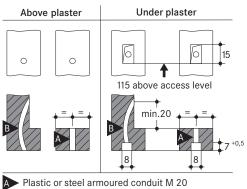
Illumination

Illumination has to be considered acc. to local requirements by client.

Installation diagram



Recesses and conduits for rotary switches with rolling and sectional gates



A Plastic or steel armoured conduit M 2

B Flexible plastic insulation pipe M 20

Railings

The units need to be provided acc. EN ISO 13857 with safety railings if the gap between unit and wall exceeds 20cm. If walkways are arranged directly to the side or behind the systems, railings have to be provided by client acc. to local requirements, height min. 200 cm – this is applicable during the construction phase too.

Free spaces

Special drawings for free spaces to accommodate air ducts or other pipes can be requested at Wöhr Agent!

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.

Dimensions

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