nusebaum



Liftparker N 4100 S/D

The best solution for ceiling heights below 3 m

Area of application: residential buildings, hotels,

office buildings, single garages above ground, prefabricated garages



185	180	305	420	165	150
185	180	320	420	165	165
200	195	320	450	180	150
200	195	350	450	180	180

Vehicle data



Standard: car width max. 190 cm, load per platform max. 2000 kg, load per wheel max. 500 kg

HO* platform above: Is not suitable for station wagons. HU* platform below: Is not suitable for low clearance cars or tuned cars (spoilers or rocker rail). We recommend to use for this vehicles our solutions Liftparker N 4400 and N 4600 with horizontal accessible platforms.

Optional vehicle data

Car length: 510cm, load per platform: max. 2500kg, load per wheel max. 625kg; only with S-systems above: width of space 250/260/270cm – overall width 280/290/300cm; pit length 540cm; clearance 305cm

Note: The total car height including roof rail and antenna fixture must not exceed the mentioned max. height.

Width dimensions • Garages

All dimensions are minimum dimensions. All dimensions in cm. Tolerances to the German Norm VOB part C (DIN 18330, 18331) and DIN 18202 are to be considered.

Note: Dimensions do not include the dimensions of the hydraulic unit. Dimensions of the hydraulic unit and the switch cabinet shown in page 4 below, are to be considered in the planning.



* gives clear platform width

* gives clear platform width

* gives clear platform width

building pillars inside of the pit





Features in the scope of delivery



Key switch

Key switch incl. emergency stop, dead man's control type with brief operating instructions and wiring to hydraulic unit.



Hydraulic unit

Hydraulic unit "Silencio" with tubing and wiring to the installation. The oil submerged motor "Silencio" is extremely quiet and smooth running. The motor-pump assembly is sound absorbent.

Location

- between or behind two systems in the pit on a 2m high support, see picture above
- if there is no space between or behind the systems – wall-mounted
- single systems: power supply placed directly on the lower platform, in the front left side

Dimensions incl. switch cabinet

- 1 2 systems: 65 cm x 25 cm x 60 cm
- 3 5 systems: 115 cm x 25 cm x 60 cm

The hydraulic unit can be used for up to 5 Car Parking Systems.

Scope of supply

S/D-system with 2 platforms, 2 columns, hydraulic cylinder, lifting carriage

Width of parking space

Width of parking space 230 cm and depth of pit 170/165 cm as standard

Safety devices

- synchronizing device for safe operation even with unequal load distribution on the platform
- entering wedge for easy drive-in and parking
- locking device prevents lowering by pipe breakage or leakage
- fixation of the car parking systems and hydraulic unit with HD-anchors, wiring and impact dowels
- railings to avoid risk of falling onto the platform, insofar as necessary

Note: Safety guards against shearing and squeezing have priority and must be provided by the Buyer.

Protection against corrosion

Corrosion protection version "Classic" of driving plates by continuous line-galvanizing to DIN EN 10142/10143. Corrosion protection version "Classic Plus" of driving plates by line-galvanizing to DIN EN 10142/10143 (depending on the market specific needs zinced and powder coated sheet metal included in the scope of supply).



Driving plates Driving plates as trapezoidal sheet plates as standard, options see "Extra Equipment".

Extra Equipment and Options



button lowering emergency stop key switch with key interlock

Berlin control system/Fire brigade Interlocked key switch, removal of the key only in the upper basic position.



Driving plates

Alu-bulb-plate in the walking area even more user friendly when going and cruise the system.



Catwalks

Positioning on the left side of the parking space even more comfortable, when walking to the driver's door. 1,5 mm zinced sheet, surface area coined. The catwalks are screwed to the driving plates, available with corrosion protection version "Classic" or "Classic Plus". Dimensions approx. 350 cm x 31/41 cm (L x W)

Width of parking space

Width of parking space 240 cm and 250 cm is recommended for even more vehicle comfort

Vehicle weight

Optional vehicle weight: 2500kg - not by inclined parking spaces. We recommend to use for these vehicles our solutions Liftparker N 4400 and N 4600 with horizontal accessible platforms.

Additional sound insulation

- structure-borne noise package to comply with DIN 4109 and adherence to sound insulation-measure Rw '57
- sound insulation hood to minimize airborne sound

Hydraulic

HVLP-oil for high fluctuations in temperature

Installation of garage gates

ramp when door facing is not available to install the door slide rail, pit length must be 535 cm, at the minimum

Protection against corrosion

- Corrosion protection version "Premium" of driving plates by individual piece-galvanizing to DIN ISO 1461
- Corrosion protection version "Premium Plus" of driving . plates by individual piece-galvanizing to DIN ISO 1461 and coating of the top surfaces

Tips

- We recommend a maintenance contract.
- Attendance and cleaning according to recommendations or in regular intervals.

Interfaces to be performed by the Buyer

Foundation

Foundation works exactly to size, clean and dry is to be completed by the start of the installation. Bonded anchors for high foundation requirements shall be provided if neccessary, available also as option.



The pit must be executed in compliance with the designated forces. The forces and loads are transfered to the foundation by bearing plates with an area of 150cm². The bearing plates are fixed with metal expansion anchors. The drill hole depth is approx. 14 cm. All walls in the pit below the entrance level must be of concrete.

Electrical data

- supply line to main switch 5 x 2,5 mm² or according to local requirements, fuse protection 3 x 16 amp, slow
- lockable main switch, near to hydraulic unit but outside of the pit, completed at the beginning of installation, height approx. 180cm above entrance level (color requirements to EN 60204-1, 10.7.4, color red)
- capacity of the hydraulic unit: 400volt, 50hz, threephase motor 3,0kW
- electrical potential equalisation (foundation grounding steel-construction to VDE 0100 T410)

General costumers duties

- level surface (L x W) 50cm x 20cm to attach the control panel, close to the system, outside the operational platform area
- safeguarding according to DIN EN 294
- lighting according to DIN 67528, illumination of parking lots and buildings for parking
- at the edge of the pit a 10cm wide, yellow-black marking according to ISO 3864
- wall opening 10cm x 10cm for hydraulic and electrical lines in case of intermadiate walls
- compliance with installation requirements as per quotation



Width dimensions • Garages with doors

single system for 2 cars

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TA = seat-engaging surface for doors The dimensions must be agreed with the door manufacturer on site.

width of parking space	door entrance width DB	reveal LB	pillar ST
230	237 ⁵	12 ⁵	25
240	250	12 ⁵	25
250	250	15	30

double system for 4 cars



width of parking space	door entrance width DB	reveal LB	pillar ST
460	460	15	30
470	475	12 ⁵	25
480	475	17 ⁵	35
490	500	12 ⁵	25
500	500	15	30

Electrical data

Installation diagram



Figure: Car parking system with inclined accessible platforms. Specifications are also apply to systems with horizontal accessible platforms.

Item	Performance	Quantity	Designation	Positioning	Frequency
1	on site	1	fuse or automatic circuit 3 x 16 amp slow to DIN VDE 0100 part 430	in the feed cable	1 per hydr. unit
2	on site	1	supply line 5 G 2,5mm ² or according to local requirements	feed cable to main switch	1 per hydr. unit
3	on site	1	lockable main switch	near to hydraulic unit	1 per hydr. unit
4	on site	each 10 m	foundation earth connector	corner pit floor/ rear wall	
5	on site	1	potential equalisation to DIN EN 60204	from foundation earth connector to the system	1 per hydr. unit
6	Nussbaum	1	hydraulic unit with 3-phaze motor 230/400volt, 50hz 3kW		
7	Nussbaum	1	supply line 5 G 2,5 mm ² with marked wires and protective conductor	from main switch to hydraulic unit	1 per hydr. unit
8	Nussbaum	1	control line 2 x 1		
9	Nussbaum	1	control element with emergency stop		
10	Nussbaum	1	control line 4G1		
11	Nussbaum	1	control line 4G1		
12	Nussbaum	1	control line 2x1		
13	Nussbaum	1	hydraulic valve lifting and lowering		
14	Nussbaum	1	hydraulic valve lifting and lowering by instal	lation in ranks	
15	Nussbaum	1	control element for each further system		

The items 6 – 15 are included in the scope of supply, unless otherwise specified in the offer/order.



Otto Nußbaum GmbH & Co. KG · Korker Str. 24 · 77694 Kehl-Bodersweier Tel.: +49(0)7853/899-0 · Fax: +49(0)7853/899-114 · www.nussbaum-parking.de