



Nussbaum

LIFTPARKER N4102

THE IDEAL SOLUTION IN CASE OF LOW CLEAR HEIGHTS



CAR STACKERS

SHORT DESCRIPTION

INDEPENDENT PARKING ON 2 LEVELS
LATERAL COLUMNS
INCLINED ACCESS TO THE LOWER PLATFORM
SINGLE SYSTEM (2 CARS), DOUBLE SYSTEM (4 CARS)
LOAD PER PARKING SPACE: 2.000 KG (STANDARD)
UP TO 2.300 KG - 2.600 KG (OPTIONAL AS S-SYSTEM)

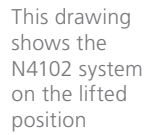
APPLICATION

FOR INTERIORS, WITH PIT
ONE AND MULTI-FAMILY DWELLINGS
HOTELS AND OFFICE BUILDINGS
CONDOMINIUMS AND COMMERCIALS
ABOVEGROUND AND READYMAD GARAGES
FOR PERMANENT USERS ONLY



D-system
for 4 cars

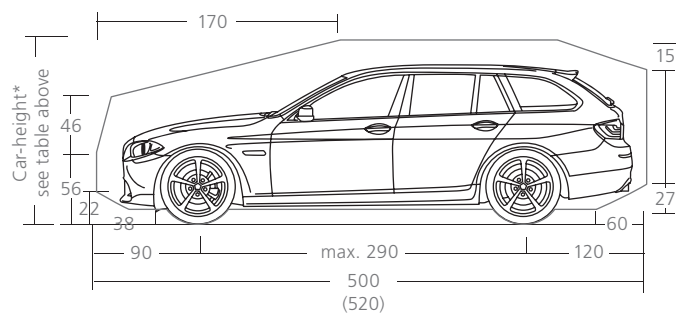
The total height of the car including roof rail and antenna fixture must not exceed the maximum car height mentioned in the table below. Standard cars do not feature sport equipment (e.g. spoiler, etc.)



*Other dimensions
are available on
request.

In case higher clear height is available it is possible to park correspondingly higher cars on the upper platform.

VEHICLE DATA: STANDARD ESTATE CAR



WIDTH DIMENSIONS FOR GARAGES

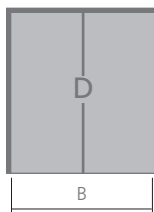
All dimensions in cm. All dimensions are minimum dimensions. Advice for planning and tendering: Generally masonry and concrete works are to be conducted according to the German norm VOB/C (DIN 18330 and DIN 18331). In the mentioned norm are pointed the tolerances that are to be fulfilled according to DIN 18202. In this norm are defined the maximum permissible dimension variations as exceedance and shortfall of the nominal size. The nominal size should be planned in order to meet the minimum dimensions necessary for the parking system.

PARTITION WALLS

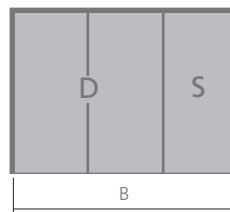
Single system for 2 cars



Double system for 4 cars



Double system + single system for 6 cars



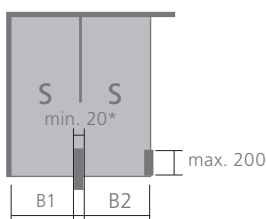
Driving lane width
acc. to country specific regulations.

CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B
230	260	460	490	460+230	750
		470	500	•	
240	270	480	510	480+240	780
		490	520	•	
250	280	500	530	500+250	810
		510	540	•	
260	290	520	550	520+260	840
		530	560	•	
270	300	540	570	540+270	870
275	305	550	580	550+275	885

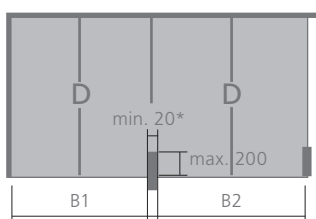
Concrete haunches on the pit floor/wall joinings are not included. If these are necessary, this results in respectively a larger pit width or a narrower platform width.

BUILDING PILLARS INSIDE AS WELL AS IN FRONT OF THE PIT

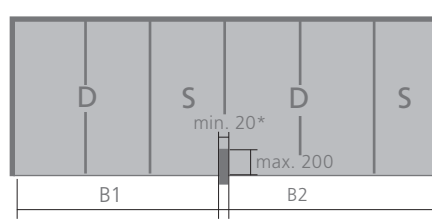
Single system for 2 cars



Double system for 4 cars



Double system + single system for 6 cars



Driving lane width
acc. to country specific regulations.

CLEAR PLATFORM WIDTH	B1	B2	CLEAR PLATFORM WIDTH	B1	B2	CLEAR PLATFORM WIDTH	B1	B2
230	255	245	460	485	475	460+230	745	735
			470	495	485	•		
240	265	255	480	505	495	480+240	775	765
			490	515	505	•		
250	275	265	500	525	515	500+250	805	795
			510	535	525	•		
260	285	275	520	545	535	520+260	835	825
			530	555	545	•		
270	295	285	540	565	555	540+270	865	855
275	300	290	550	575	565	550+275	880	870

*Building supports from 20 cm width: no restrictions on the clear platform width according to the specifications in the charts.
• Intermediate stages can be combined at will.

Note: the dimensions reported do not include the space necessary for the power unit.

1–2 systems: 65 x 25 x 60 cm

During the planning phase please add the dimensions for the power unit incl. control cabinet.

3–5 systems: 115 x 25 x 60 cm

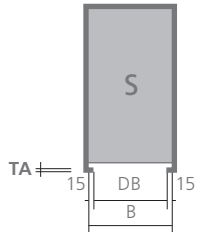
WIDTH DIMENSIONS FOR GARAGES WITH GATES

All dimensions in cm. All dimensions are minimum dimensions. Advice for planning and tendering: Generally masonry and concrete works are to be conducted according to the German norm VOB/C (DIN 18330 and DIN 18331).

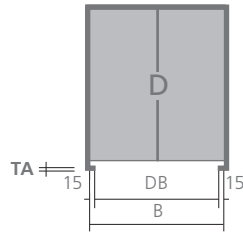
In the mentioned norm are pointed the tolerances that are to be fulfilled according to DIN 18202. In this norm are defined the maximum permissible dimension variations as exceedance and shortfall of the nominal size. The nominal size should be planned in order to meet the minimum dimensions necessary for the parking system.

SINGLE AND DOUBLE GARAGE

Single system for 2 cars



Double system for 4 cars



TA = seat engaging surface for gates.
Dimensions to be agreed on site with gate manufacturer.

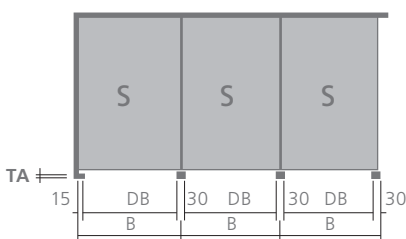
Driving lane width acc. to country specific regulations.

CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB
230	260	230	460	490	460
			470	500	470
240	270	240	480	510	480
			490	520	490
250	280	250	500	530	500
			510	540	510
260	290	260	520	550	520
			530	560	530
270	300	270	540	570	540
275	305	275	550	580	550

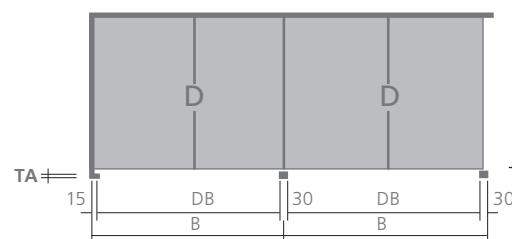
Concrete haunches on the pit floor/wall joinings are not included. If these are necessary, this results in respectively a larger pit width or a narrower platform width.

GARAGES WITH SINGLE AND DOUBLE GATES

Single system for 2 cars



Double system for 4 cars



Driving lane width acc. to country specific regulations.

CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB	CLEAR PLATFORM WIDTH	INSTALLATION WIDTH B	DRIVE-IN WIDTH DB
230	260	230	460	490	460
			470	500	470
240	270	240	480	510	480
			490	520	490
250	280	250	500	530	500
			510	540	510
260	290	260	520	550	520
			530	560	530
270	300	270	540	570	540
275	305	275	550	580	550

Note: the dimensions reported do not include the space necessary for the power unit.

1–2 systems: 65 x 25 x 60 cm

During the planning phase please add the dimensions for the power unit incl. control cabinet.

3–5 systems: 115 x 25 x 60 cm

STANDARD FEATURES – IN THE SCOPE OF DELIVERY

NOTE

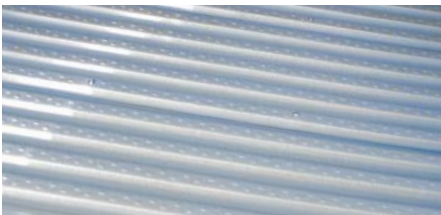
We suggest periodical maintenance, care and cleaning. Take advantage of NUSSBAUM maintenance agreements.

COMPONENT PARTS

Single system: consisting of 2 Platforms, 2 packed columns with hydraulic cylinders, lifting slide and hydraulic block, 2 tension rods and struts.

and/or:

Double system: consisting of 4 Platforms, 2 packed columns with hydraulic cylinders, lifting slide and hydraulic block, 2 tension rods and struts.



Platforms with sidewalls and driving sheets made of trapezoidal sheet.

DIMENSIONS OF THE SYSTEM

Standard system

Parking space length: 500 cm

Parking space width: 230 cm (for max. 190 cm wide cars)

Pit depth: 170/165 cm.

Load per parking space: 2.000 kg.

KEY SWITCH



Control unit composed of key-switch with Emergency-off in dead-man's control and with cabling to the hydraulic power unit.

HYDRAULIC POWER UNIT INCL. ELECTRICAL SWITCH BOX

Power unit „Silencio“



With hydraulic canalization and cabling to the main control switch.

(The under oil unit is not loud thanks to the motor-pumps-combination that absorbs sound and insulates from noise). Delivery includes switch box.

Measurements of the power unit:

1–2 systems: 65 x 25 x 60 cm

3–5 systems: 115 x 25 x 60 cm.

The power unit will be placed in the pit between 2 systems on an approx. 2 m high pillar or, if there is no space available, it will be fastened to the wall. In case of single installations we can also optionally deliver a mobile power unit, installed on the front left side of the lower platform.

CORROSION PROTECTION

C3-Line

For Regions with average snowfall and humidity levels (the standard in Germany).

C2-Line

Recommended only for regions with small or no snowfall and low humidity levels.

ELECTRICAL INSTALLATION

For a list of services and interfaces please see the respective table in this brochure.

DOCUMENTATION

Brief operating instructions (fastened to the control unit), documentation (test book and operating instructions).

SAFETY DEVICES

- Synchronization unit to guarantee synchronous run even in case of irregular load distribution.
- Wedge to help position the vehicle.



- Safety device to avoid lowering in case of pipeline rupture.
- Fastening of the parking system and hydraulic power unit with stud-bolts, electrical cabling fastened with impact dowels.
- Handrails on the platforms where necessary to avoid danger of falling down from the system.

Note:

- Safety fences against shear and crushing points are a priority and must be provided by the customer.
- Hydraulic package „Parallelbetrieb“: Symultaneous lowering of 2 or more systems per power unit with appropriate pump capacity.

OPTIONS AND EXTRA EQUIPMENT – EXAMPLES

NOTE

We suggest periodical maintenance, care and cleaning. Take advantage of NUSSBAUM maintenance agreements.

DIMENSIONS OF THE SYSTEM

Parking space lengths: 510 to 540cm
 Parking space widths: 240 to 270cm
 (S-system up to 350 cm as Barrier free version - by 10 cm deeper pit).
 Parking space heights: 165 to 205cm
 Pit depths: 185/180 to 200/195 cm.

Fastening of the parking system with chemical anchors in case of heightened foundation requirements or sound insulation.

VEHICLE WEIGHT

Higher load per parking space:
 S-system: up to 2.600 kg (upper platform)
 - up to 2.300 kg (lower platform)

BERLIN CONTROL UNIT/ FIRE BRIGADE



Berlin control unit with weatherproof casing and pillar

- Control unit consisting of a lockable key switch (key can be taken off only in the basis position) with emergency-off in dead-man's control. Lifting and lowering by using the respective button.
- Weatherproof casing for the key switch.
- Supporting pillar for the key switch.

DRIVING SHEETS



Upper platforms with Aluminium-bulb plates driving sheets and special driving wedge to help position the vehicle.

EXTRA SOUND INSULATION



Sound insulation hood for the power unit

Airborne noise package - hood

For the power unit to reduce the airborne noise at the installation site.

Structure/borne noise package

Measures to reduce the sound propagation from the parking system to the building.

Note

- In order to comply with the norm DIN 4109/A1 Table 4 „requirements for the allowed noise level in areas in need of protection from noises coming from the technical equipment“, the perimetral parts of the garage building shall be built with a sound reduction index R_w of at least 57 dB.

GARAGE GATE'S INSTALLATION

Ramp if doorjambs are missing for the installation of the door slide rails. The pit must then be at least 535 cm long.

CORROSION PROTECTION

C4-Line: driving sheets powdered on both sides
 for regions with highly corrosive humidity levels.

CATWALK



Catwalk on trapez. sheet for more walking comfort

Catwalk on trapezoidal sheet flooring

Positioned on the left side of the parking space. 1,5 mm galvanized sheet, coined surface area. The catwalk is bolted to the driving sheet.

HYDRAULIC

- HVLP 32-330 Öl for extreme temperature variations.
- Heated hydraulic power unit.

UPPER PLATFORM

- Even drive-on instead of drive-on ramp to allow a more comfortable entrance (this means a loss by 8 cm in the car-height below).

SERVICES TO BE PROVIDED BY THE CUSTOMER AND PLANNING INDICATIONS

During the planning phase please observe and comply with the following notes!

SERVICES TO BE PROVIDED BY THE CUSTOMER

Safety fences

Safety fences acc. to DIN EN ISO 13857 must be provided by the customer.

Parking spaces' numeration

For the allocation of the parking spaces we suggest our customers to numerate the parking spaces.

Noise abatement measures

The compliance with these measures must be carried out by the customer acc. to norm DIN 4109: „Sound insulation in building construction“.

Lighting

To be carried out by the customer acc. to DIN 67528: „Lighting for parking areas and indoor car parks“.

Pit-foundation

To be carried out by the customer acc. to the specifications in this brochure.

Electrical installation

Prior to starting the assembly the customer must provide a lockable main control switch out of the system/pit close to the power unit. Electrical services to be provided by the customer acc. to this brochure's spec.

Installation requirements

The compliance with installation requirements acc. to quotation.

Drainage

Drainage channel 10 cm x 10 cm with collecting pit 50 cm x 50 cm x 20 cm acc. to this brochure's spec to be carried out by the customer.

Fire protection

The customer must agree upon the fire protection requirements and the required measures with the local fire department and realise them.

Marking

The customer must provide a 10 cm wide yellow-black marking on the front pit edge according to the norm ISO 3864.

Wall openings

In case of partition walls the customer must realise a 10 cm x 10 cm wall opening for hosting hydraulic and electrical cables.

Building permit

The customer must apply for and get the required permits in order to allow the installation of the parking system.

Control unit

The customer must make sure that a plain surface of (L x W) 50 cm x 20 cm for the installation of the control unit is directly close to the power unit and out of the platforms' moving area.

PLANNING INDICATIONS

Parking space width and driving lanes

While planning the parking space and driving lane dimensions please observe and comply with the local/national prescriptions for the Garages' construction. For more parking comfort we suggest you to plan parking spaces of at least 250 cm width.

Group of users

Our parking systems are conceived for a permanent and instructed group of users.

Maintenance and care

We suggest a timely conclusion of a maintenance agreement.
We suggest also to perform maintenance, care and cleaning at regular time intervals.

EG-Machinery directive

Our parking systems comply with the EG-Machinery directive and are CE certified according to the norm DIN EN 14010.

Ramps' inclination

Ramps leading to garages shall not have more than 15% inclination.

Modifications

The company Otto Nußbaum GmbH & Co. KG reserves the right to make dimensional, design and technical modifications.