

**MUTRADE**  
MUTRADE INDUSTRIAL CORP.



# BDP-1

## Sliding Platform

**CE** This parking system is compliant to:  
- EC Council Directive 2006/42/EC Machinery  
- DIN EN 14010

Please notice that all the specification and technical details quoted within this catalog/datasheet/installation manual maybe out of date or have minor differences with our standard equipment from time to time. Our company reserve the right to change technical details in the description, information and illustrations in this documentation. All the specification and technical details will be subjected to the drawing confirmed by the sales contract.

Web: [www.mutrade.com](http://www.mutrade.com)  
Tel.: +86 532 5557 9606 / 5557 9608 E-mail: [inquiry@qdmutrade.com](mailto:inquiry@qdmutrade.com)  
Address: No. 106 Haier Road, Jimo District, Qingdao, 266200 P.R. China



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the working video  
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## > Introduction

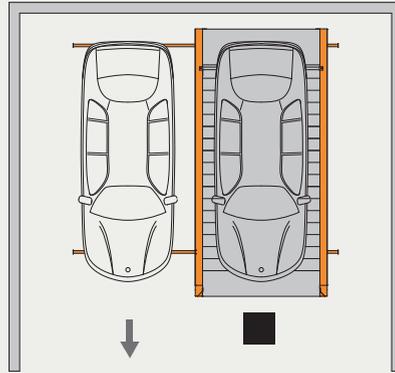
BDP-1 is a sliding platform for parking that utilizes every possible space of a parking lot to provide maximum parking spots. By shifting laterally, additional parking spots in driving lanes are created in front of existing parking spaces, behind columns or in corners. They can be easily controlled by buttons or PLC system (optional) to retrieve a car behind the occupied sliding platform. And multiple rows can be installed front & back. One empty space shall be reserved in each row so every parking space can be reached.

## Features

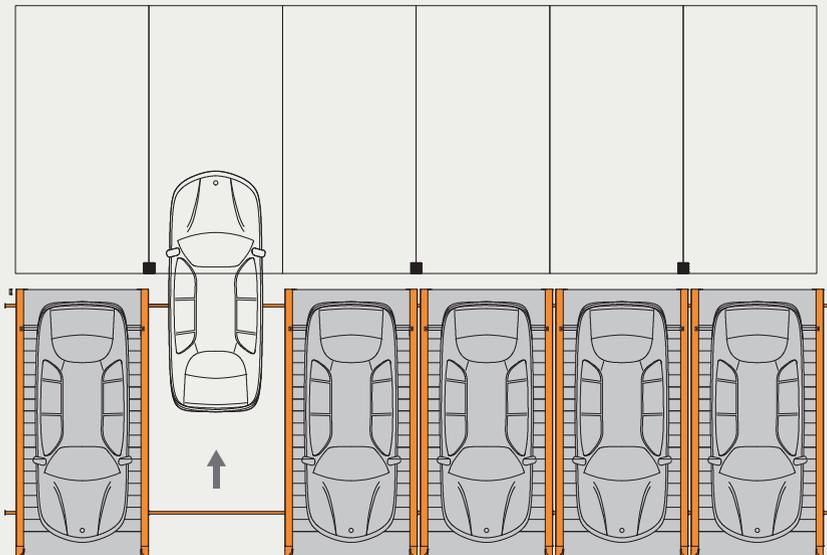
- Platform loading capacity 2500kg, load per wheel 625kg
- Up to 100 % more parking places
- Net platform width up to 2500mm
- Max 3 row arrangements behind each other
- Low noise operation
- High level of operational and functional safety (CE certified)
- Independent parking
- The sliding platform is compliant to DIN EN 14010

## Function

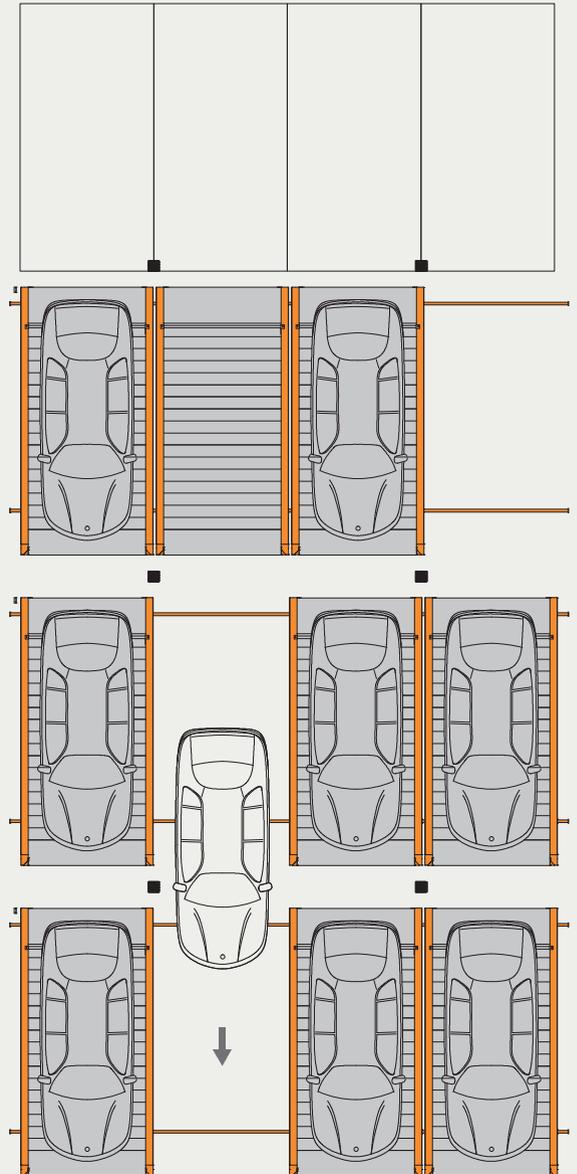
- A** By shifting platform laterally, one more space behind column is possible.



- B** One empty space is reserved on each row to create necessary path for conventional parking spaces behind.



- C** Max 3 rows of sliding platforms can be arranged at the same time. The desired platform can be easily reached by PLC control system

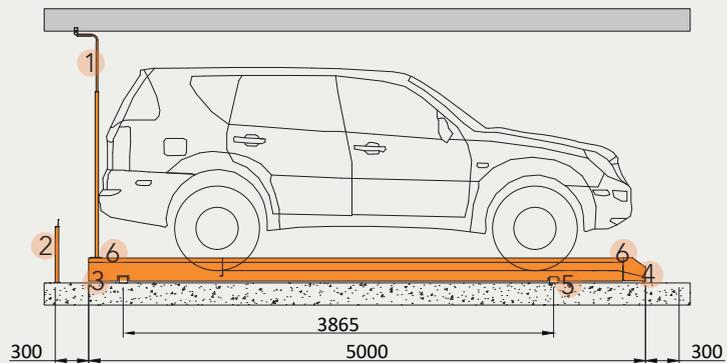


### Length Measurements

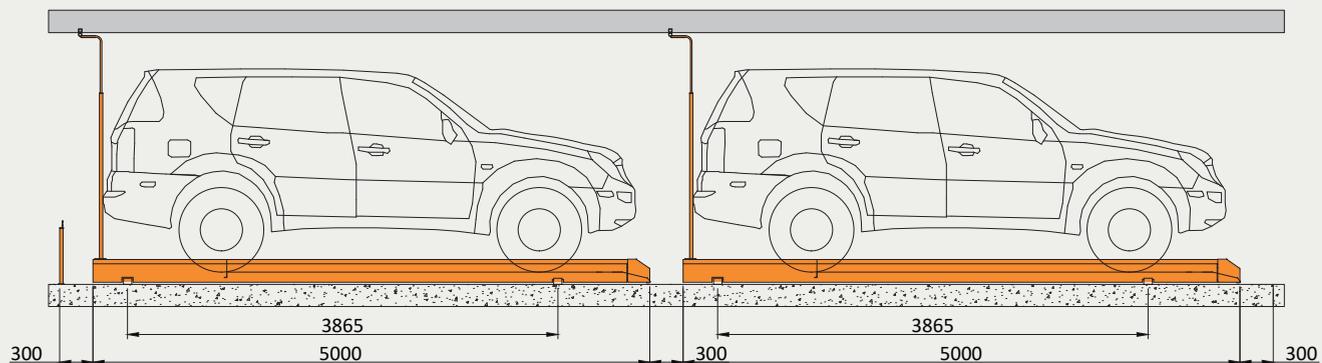
Length of each sliding platform is 5000mm, a 300mm safety clearance shall be reserved in front or behind each platform, according to EN 14010.

Considering the max vehicle length of 5000mm, the distance between columns shall be  $>560\text{mm}$ . The distance can only be reduced with shortened max vehicle length or parking space length, or by adding light barriers.

When multiple rows of sliding platforms are installed front & back, the distance in between shall be min. 300mm.



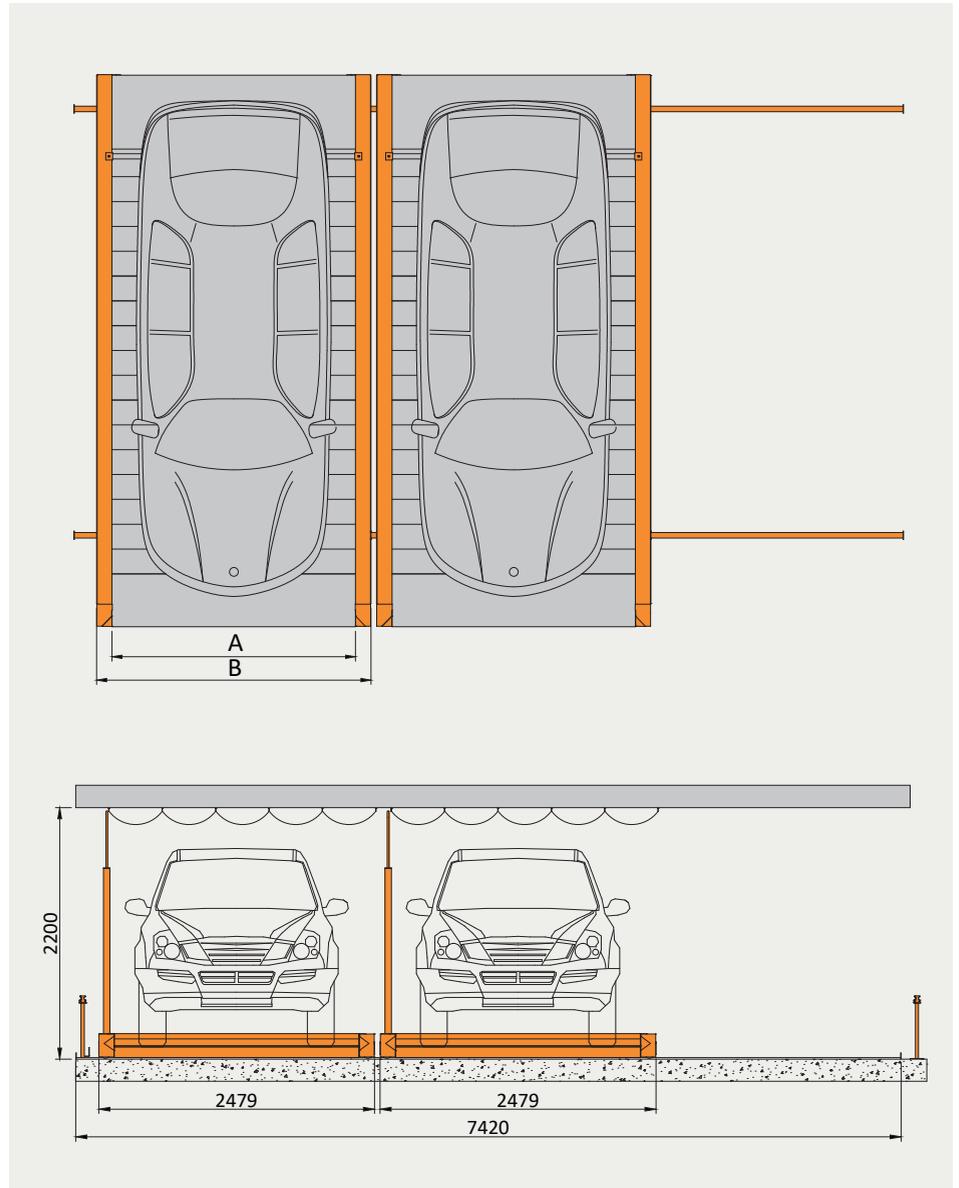
- ① Hanging cable
- ② Photocell sensors
- ③ Proximity switch
- ④ Ramp
- ⑤ Guide rail
- ⑥ Light barrier (optional)



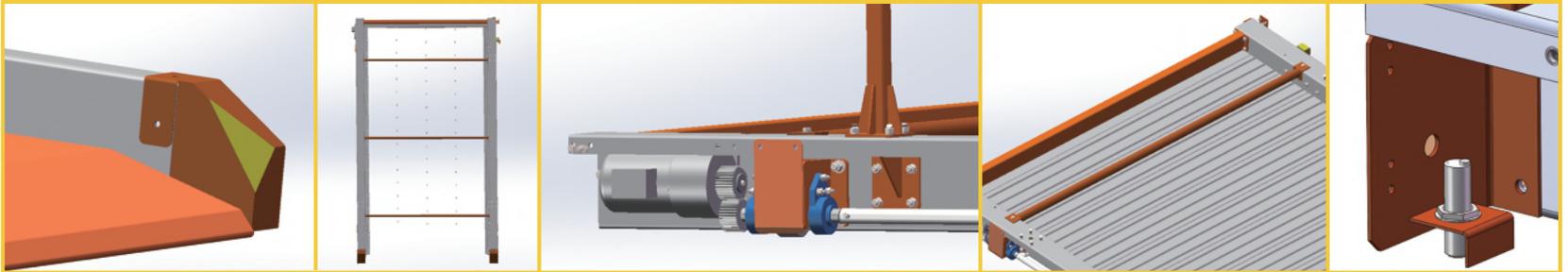
## Width Measurements

Recommend net platform width is at least 2100mm. Corresponding width between vehicle tyers is 250mm smaller than the net platform width.

Net Platform Width	Sliding Platform
A	B
2000	2279
2100	2379
2200	2479
2300	2579
2400	2679
2500	2779



## Technical features



Round head bolts are adopted to protect vehicle tyers

Super low drive-on height

Specially designed platform front edge to prevent tyre cutting

Fine powder coating treatment is adopted to increase surface looking and have gentle surface touch

Laser cutting improves the accuracy of parts, and robotic welding machines make the welding joints firm and beautiful

BDP-1

Guide rails using galvanized hard solid steel to have longer service life

Wheel stopper is equipped on each platform for vehicles to better position

Waving plates are galvanized to have long service life and low maintenance cost

Galvanized screws, bolts, nuts, etc. based on European standards to have longer service life

Protective cover plates at two sides are available to protect rolling shaft and rollers

## Safety devices

Proximity switch, to position the platform precisely after due sliding travel

Motor thermal protection, to protect motors in case of overload, overcurrent, etc

Photocell sensors, equipped on each row to stop the system when detecting vehicle traversing or in case of incidental break-in

Light barrier is optional at platform sides to prevent squeezing dangers

PLC control is optional for cases with multiple rows or large numerous platforms

Alarm light with rich functions is optional



## Main specifications

Model Name	BDP-1
Loading capacity	2500kg
Sliding speed	7-8m/min
Standard size (L*W)	5000x2479mm
Allowed vehicle size (L*W)	5000x1950mm
Motor power	0.2kw
operation	Key switch / PLC (Optional)
Finishing	Powder coating
Power supply	110v-480v, 50/60hz



We reserve the right to change the specifications without further notice. Mutrade Industrial reserves the right in the course of technical improvement to apply newer technologies, systems, processes or standards in the fulfillment of their obligations.

Control device	Key switch
	Emergency Stop
	PLC Control Panel (optional)
Alarming device	Warning light
	Buzzer
Control circuit	Circuit breaker
	Contactor
	Photocell sensors
	Proximity switch
	Thermal relay
	Light barrier (optional)

### Parking

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Always put break on after parking on the platform properly.

### Protection against corrosion

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Regular maintenance and cleanup shall be carried out by customer to remove dirt, road salt, melting snows, etc.

### Evenness and tolerances

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According to DIN 18202, exact leveling of the ground is essential. Max allowed tolerance is 5mm; and sloping in any way or direction is not allowed.

### Vehicle height

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The vehicle height shall be at least 150mm lower than the ceiling height.

### Floor details

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Install on concrete floor only, NO asphalt. In case of any unevenness, install the platform on highest point, and tolerance with lowest point shall be <5mm.

### Lighting

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Lighting to be carried out by the customer according to DIN 67528 for parking areas and indoor car parks.

### Electrical installation

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Electrical services to be provided by the customer

### Fire fighting system.

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Fire protection shall be carried out by customer complying with the codes and regulations of local fire department

### Warranty

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Please consider the information on Warranty Policy



### Liability

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The lower edge of platform and floor surface shall not exceed 2cm, otherwise Mutrade does not take any liability for damages due to squeezing injuries as consequence.