

# Enclosed platform lifts



*Barduva provides cost effective solutions for customers with different financial capabilities.*

Barduva has been in the lifting equipment market for almost 20 years.

From the very start the creation of our platform lifts was based on our own technical solutions using the latest research in mechanics and electronics.

All the components of our products are developed exclusively by professional engineers of our firm.

Lift assembly and testing are carried out in our factory as well, this way taking our product quality and customer service to a significantly higher level than it is commonly accepted in the industry.

We can create new products, adopt innovative technologies and offer the shortest lead time for existing products.

The years of experience in development, highly qualified constructors and engineers, constantly improving methods of production management and established worldwide partnerships make us very competitive in the market and provide a reliable basis for the successful development of our company.



*We are always open to innovations and customized solutions. Flexibility and responsiveness are our main priorities.*



# Screw-driven enclosed platform lift

## SB 200

- *Flexible design*
- *Low space requirements*
- *High level of security*
- *Power-saving technologies*
- *Flexible digital control system*
- *Smooth adjustable movement*
- *Fast and intuitive installation*
- *Exterior design options*
- *Durable screw drive*
- *Wide range of options and accessories*



SB200 is designed according to the Machinery Directive 2006/42/EC and complies with the European platform lifts standard EN81-41:2010.

SB200 is a vertical platform lift assembled using high quality materials and designed to meet the characteristics of ultimate performance and outstanding aesthetics.

Passengers are lifted by the platform inside the shaft which is constructed of special multilayered aluminum sandwich type panels or glass panels. The platform is moving at a maximum speed of 0.15 m/s. Every trip starts and ends with exceptional smoothness. The platform, the control panel and

its buttons are adapted to be used by any category of passengers, including wheelchair users and the visually impaired.

A screw driven system ensures durability and the highest level of security compared to other types of drives used in similar platform lifts.

Platform control system supports up to 6 stops and 3 doors at each stop. SB200 has a standard load capacity of 400 kg and a travel height of 13 meters.

## Design

The operation principle of SB200 is based on the screw self-locking gear. The engine is mounted on the platform itself and rotates a threaded nut, which moves along the stationary screw, this way lifting the platform.

The shaft is constructed on the basis of an anodized aluminum frame interconnected with the panels of a client's choice. Multi-layered sandwich panels and laminated glass panels come as a standard. A maximum of three doors may be installed on each floor with either left or right swing. The doors on the top floor stop may be designed in the form of gates. This type of construction looks aesthetic and modern and gives a clear view of the surroundings.

At the request of the client, the platform and panels may be painted in any color of RAL scale. SB200 is a standard color RAL9006 (white aluminum).



## Application

SB200 is designed for a comfortable use by all categories of passengers, including the elderly and people with limited mobility.

Our platform lift fits perfectly both in the interior of buildings, and in a variety of external architectural styles even, in some cases, improving the aesthetics of buildings. In the case of internal installation, SB200 has all the essential qualities of a platform lift: minimum overall dimensions, no pit and machine room, silent operation and low energy consumption.

SB200 may be installed in libraries, museums, hospitals, schools, airports, railway stations, aboveground and underground passages or parking. Our lifts are widely used in private houses, cottages and apartment buildings.

SB200 is durable and unpretentious in service, adaptable to different standards of power sources and can withstand large power surges.



## Comfort



The absence of the lift cabin in SB200 lets us make a spacious and light platform. A standard platform (1485 x 1070 mm) ensures a comfortable journey for a person with a wheelchair and his attendant.

The control of the platform is very simple and intuitive, with a stable system to incorrect commands or its subsequences. A passenger may stop and resume the movement at any time of the trip and even change the lift's moving direction. The beginning and the ending of the lifting process are performed in very smooth easing algorithms and don't evoke any uncomfortable feelings for sensitive people.

A uniformly backlit control panel, with a comfortable handle below, contains large buttons with embossed symbols at a convenient height for accessing from sitting or standing positions.

### Additional options:

- Jump seat
- Ramp
- Electrical outlets for recharging wheelchairs and other equipment
- Phone line
- Voice announcer, musical theme
- Two-way wired or wireless speakerphone on the platform
- Extra lighting options
- Additional floor indicators
- Automatic door openers
- Electronic contact and non-contact keys

## LED lighting



*We are ready to satisfy any individual request of a client regarding platform design or lighting options based on LED and other technologies.*

We use the latest LED technology for lighting of SB200 as it is cost-effective, durable and has a wide palette range. The sets of a large number of LED elements provide uniform illumination and an excellent aesthetic appearance.

Energy saving LED lighting may stay on for a long time even in case of an emergency power failure.

A backup battery installed on the platform may keep the necessary level of lighting for a couple of hours.

The platform floor cover is made of rough anti-skid material, which is highly adhesive and abrasion resistant. The floor coating material may contain logos, promotional materials or pictures according to our clients' needs.

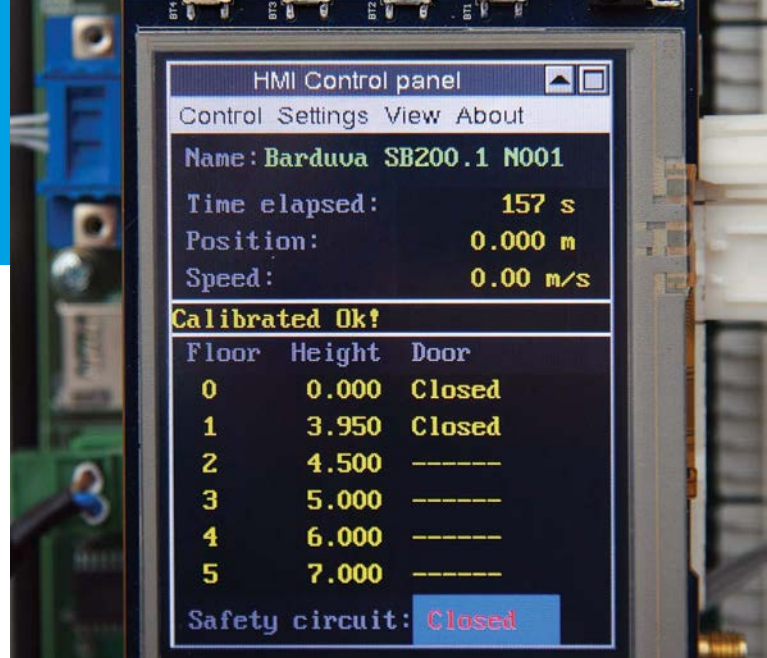
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## Innovation

Vertical platform lift SB200 combines time-tested design solutions and new approaches to electronic control and fault diagnosis. By using the highest quality materials and components, our task is to increase the longevity of the lift and to minimize the downtime associated with troubleshooting and maintenance.

The elevator control system can be equipped with a special diagnostic module that provides the detailed information on the status of all platform nodes and system sensors.

The module informs about the usage of SB200, including the number of lifts and trip distances. It also enables to perform the adjustments on the lift operating settings, including speed and smoothness, the height of stops, lock closing time, button modes and much more.



With a sufficient expertise of staff a computer may be used instead of a module to implement the modifications and even reprogram the system completely. The diagnostic module helps to perform the functions of the remote monitoring, voice messaging and two-way wireless speakerphone via GSM.

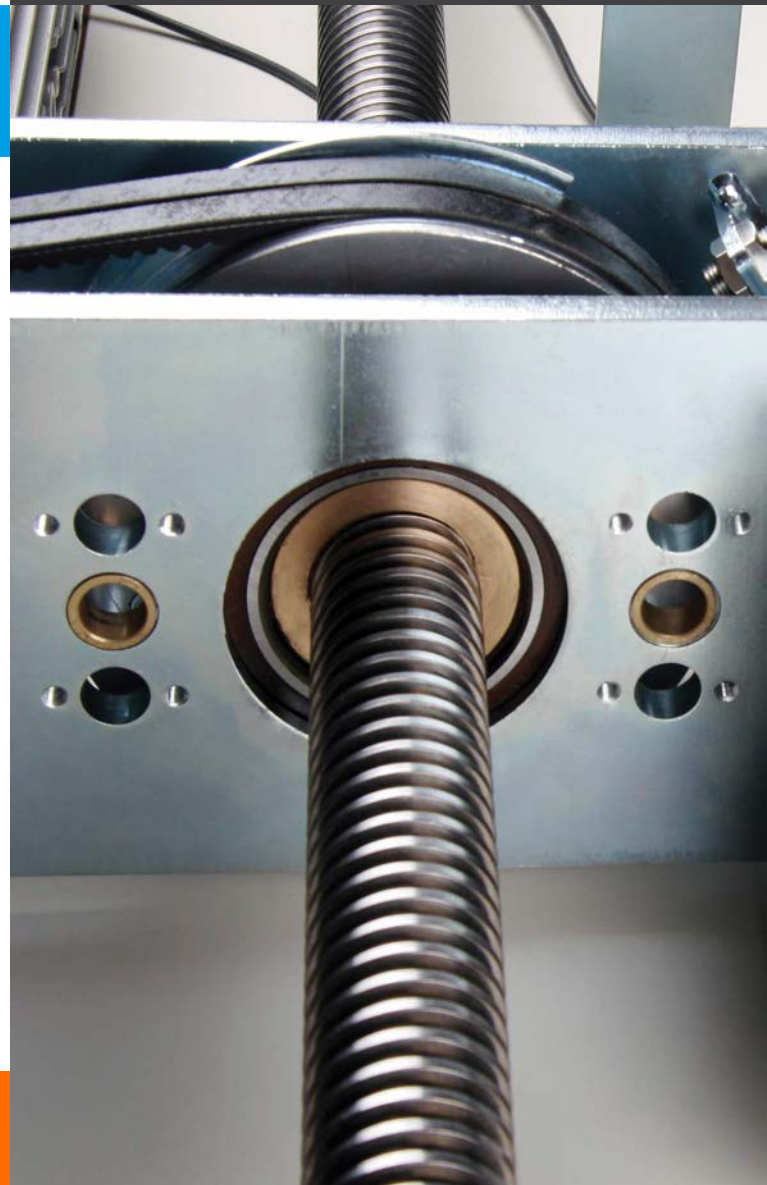
## Cost efficiency

The maximum efficiency of SB200 is achieved by using lighter materials, power saving lighting technologies and selecting a specific electric drive.

The electric drive of the lift is constructed on the basis of an electronic frequency converter, which has the best characteristics of power consumption compared to directly connected motors, and enables to adjust the speed and smoothness of movement.

SB200 lifts come with either three-phase or single-phase frequency converter, depending on the capabilities of a present electrical circuit and intensiveness of a lift usage.

The frequency converter always provides the engine with most optimal energy supply and prevents any energy wastage at the same time adapting to the grid voltage drops.



# Reliability and security



Barduva is continuously improving its vertical screw driven platform in terms of security and reliability indexes. The product reliability is the feature which is beneficial to both consumers and manufacturers.

Long time testing has shown that even after 50.000 cycles and more than 600.000 meters of travel the amortization of the main gear was hardly recognizable.

The control system of SB200 lift has passed stringent tests on the impact of the strong external electrical interference and received a certificate of electromagnetic compatibility (EMC).

Technical maintenance service performed a general analysis on the lift design and its schematic solutions, in order to identify any possible weaknesses in security, and came to the conclusion

that all measures are fully implemented, confirming the certificate of conformity. The security measures implemented in the SB200, comply with one of the most stringent European standard EN81-41: 2010.

SB-200 always fixes itself at an exact indicated position thanks to the triple braking torque system:

- Self braking torque of a nut and a screw;
- Electromechanical brake inside the motor;
- Electromechanical brake on the nut, executed by powerful solenoids.

In case of emergency situations the lift mechanism is supplied with a manual emergency descent. Optionally, the emergency lowering mechanism may be actuated by an electric motor with a backup battery.

## Technical specifications of the standard version

<b>Rated load</b>	400 kg
<b>Capacity</b>	up to 5 persons
<b>Drive system</b>	Screw-driven
<b>Speed</b>	Adjustable, maximum 0.15 m/s
<b>Power supply</b>	220-240 V, 1 phase; 380-400 V, 3 phase, 50 Hz
<b>Engine</b>	2.2 kW
<b>Frequency converter</b>	comes as a standard
<b>Travel height</b>	up to 13 meters
<b>Landings</b>	up to 6
<b>Platform dimensions</b>	1485 x 1070 (length x width, mm)
<b>Shaft dimensions</b>	1540 x 1460 (length x width, mm)
<b>Door clearance</b>	940 x 2000 (length x width, mm)
<b>Door configuration</b>	Right or left swing, up to 3 doors per landing
<b>Shaft walls</b>	Aluminum profiles with glass or steel panels
<b>Color</b>	RAL 9006 (white aluminum) as a standard
<b>Noise level</b>	Less than 65 dB
<b>Control system</b>	24 V, multi-processing data line
<b>Technical safety equipment</b>	Safety edge in the platform, emergency stop buttons inside the platform and in the shaft, emergency stop switches, electronic speed control, overload detectors, opening control of doors and locks, screw amortization sensors, electronic control of engine performance
<b>Compatibility with European Standards</b>	EN81-41: 2010



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The logo for Barduva, featuring the word "barduva" in a bold, lowercase sans-serif font, followed by a stylized icon consisting of a vertical orange bar and a white figure that resembles a person or a stylized letter 'X'.