ottobock.

The Juvo family

For more independence and flexibility











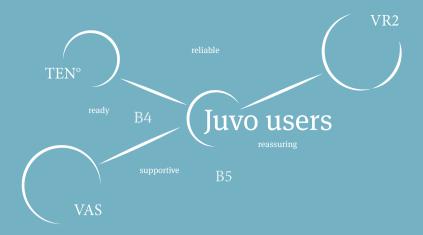




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Juvo family

Our main focus is the user. And the rehab specialist is an important link between him or her and the wheelchair, tailoring the wide range of options to the respective Juvo user's fitting needs.

During the development of the Juvo family, we placed great emphasis on individual components that could be combined with one another in a flexible manner. This means that nearly all of the components can be used across the entire series.

Among others, the new features include a mid-wheel drive version, a variable adaptable seat – VAS for short – and the TEN° control device.

The modular design of the Juvo family offers almost boundless possibilities for assembling custom-made devices, from the basic model to the high-end version.









Juvo B4 standard equipment*

- 6 km/h, 4-pole motors
- Drive wheel suspension
- Standard seat with seat cushion and mechanical back support angle adjustment up to 30°
- Lap belt for positioning
- Removable side panel with soft arm support and double profile
- Swing-away leg supports
- Easy to service, low-maintenance AGM batteries
- Joystick control with the ability to operate two power functions
- LED lighting according to German Motor Vehicle Safety Standards (StVZO)

^{*} May vary depending on market



Juvo B4

The entry-level model

The rear-wheel drive Juvo B4 uses the components of the Juvo family. This makes spare parts management and retrofitting extremely straightforward, flexible and economical – for example in case of reuse. Thanks to its modular design and the available options, there are numerous possibilities for assembling a modern, customised device.

Juvo B5 / B6



For complex challenges

The B5/B6 models of the Juvo family meet the requirements of more complex and potentially non-standard challenges. In cooperation with therapists and users, we paid special attention to ergonomics and support for all-day use as well as self-explanatory functions in the course of everyday operation. The B5/B6 models offer solutions aimed at regaining mobility quickly with the unique "Quick Mobile" concept. Excellent serviceability with an appealing design and colour concept complete the image.







Juvo B5/B6 standard equipment*

- Front-, rear-, or mid wheel drive in two different chassis sizes
- 6 km/h, 4-pole motors
- Weight-dependent drive wheel suspension for optimal damping and comfort
- Automatic circuit breaker in easy to reach location
- Standard seat with seat cushion and mechanical back support angle adjustment (continuous up to 30°)
- Lap belt for positioning
- Removable side panel with soft arm support and double profile
- Swing-away leg supports
- Maintenance-free AGM batteries
- Driving control with the ability to operate two power seat functions
- LED lighting according to German Motor Vehicle Safety Standards (StVZO)

^{*} May vary depending on market

Drive types

When choosing the respective model, it is important to consider the environment, everyday life and overall needs of the user.

Will the Juvo be used mostly indoors or outdoors? Will vehicles or public transportation be used? Does the user have experience with electromobility? Do age and body height play a role?

- Powder-coated die cast swing arms
- Battery case core in two sizes
- Dual motor suspensions
- Single-wheel suspension
- Flip-up service opening
- "Quick Mobile" concept



Front-wheel drive

lity for the user. The wheelchair has a relatively small turning radius during the typical 90° turn and the ability to drive

Benefits

- Compact design
- Very small turning radius
- · Good curb climbing ability
- Drives up close to objects
- Good overview in front of the wheelchair
- Good leg positioning

Mid-wheel drive

Incomparable driving characteristics for all fields of applisystem form the basis for this intuitive drive type. Thanks to the direct pivot point, safe handling is possible even with

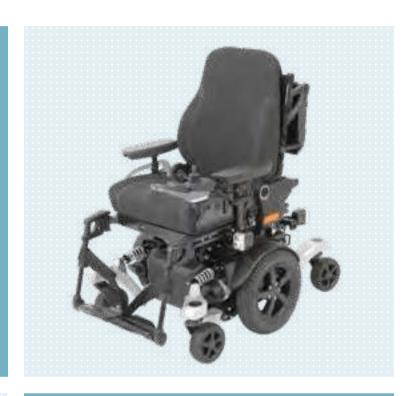
Benefits

- Intuitive movement and driving thanks to central pivot

- Low centrifugal forces







Rear-wheel drive

We have continually developed the classic drive system for and enhanced safety, even at higher speeds.

Thanks to its directional stability, the Juvo with rear-wheel drive is ideally suited for outdoor use and for users with

Benefits

- Excellent directional stability, even at higher speeds
- Flexible centre of gravity distribution
- Good drive wheel traction when driving up and down

Mid-wheel drive



Intuitive and safe

The Juvo with mid-wheel drive and patented traction assist, the torsion drive system, is ideal for indoor and outdoor use: highly manoeuvrable 360° performance for indoors and stability thanks to optimum weight distribution for outdoors. Dynamic and controlled driving characteristics mean that the user can easily navigate curbs and gutters in urban environments.

Natural rotation around the wheelchair's own axis is also made easy since the pivot point is located directly under the driver. Thanks to these intuitive driving characteristics offered by the Juvo, even less experienced users can manoeuvre safely after a short time.







Single-wheel suspension

The weight-dependent full suspension offers incomparable driving comfort and enhanced safety for the user. It reduces the transmission of vibrations to the body, promotes a good body posture and enhances the overall sense of well-being.

Torsion drive system

The Juvo's patented chassis design ensures that adequate ground contact is maintained at all times. Flexible torsion characteristics further enhance driving comfort.

Seating solutions

Good seating solutions need to fit well and take the individual requirements of each user into account.

Every user has unique, individual requirements when it comes to seating solutions. Accommodating these requires customised solutions that allow for combinations between different wheelchairs and seating systems.



Standard seat

The standard seat offers a wide range of possible settings

Individually adjusting the back support upholstery is easy thanks to the handy strap system. Plus, lateral pockets offer the greatest possible flexibility to establish required

VAS

The new VAS (variable adaptable seat) can be adjusted to

The Ergo Joint back support angle adjustment is almost entirely free from uncomfortable shear forces. The profiled means of communication such as a talker. Elevating arm supports and a broad range of leg support versions are





Contour package

Optimum seating comfort

Our collaboration with physiotherapists and occupational

The front seat base is formed by the anatomically shaped

An integrated "ramp" also aids the optimal positioning of the pelvis. Together with the back support pad, it helps to seating solutions.

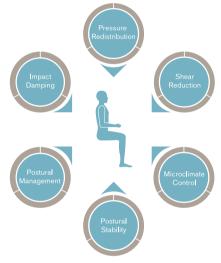
Seating solutions

Good seating solutions should take the individual requirements of each user into account. The main focus is on improving comfort, health and functionality.

Criteria for optimum seating solutions

- User comfort
- **Functionality**
- Support for targeted movements
- Safety
- Pelvis position
- Foot position
- Postural stability
- Flexible malposition
- Fixed malposition
- **Tonicity**
- Tissue tolerance

The Clinical Seating Molecule is a visual representation of the key factors used to identify and prioritise an optimal seating solution.



For further information about the Seating Molecules and our seating solutions, please see the seat cushion brochure (646D1084) and the Baxx line brochure (646D1165).



Seat cushion

Improved mobility of the molecules

Thanks to our experience with high-tech foams used in automotive seating, we have succeeded in developing Terra line cushions.

Due to improved molecular mobility under load, the foam offers optimised pressure distribution as it cushions the thighs and the pelvis. This and the reduced shear forces also result in fewer incidences of pressure sores. A total of nine different cushion models can be selected from the

Baxx line

Postural stability

The Baxx line consists of ergonomically shaped, rigid back ting especially comfortable.

ours. The Baxx line products can be combined with the VAS.





Ergo Joint

Avoid unpleasant shear forces

Various methods can be used to adjust the back support angle without irritating shear forces.

natural hip pivot point. The resulting axis prevents the back support from pulling up. This means that the contoured lateral guides and, for example, the chin control mounted



The VAS with Ergo Joint features manforces, with optimum fitting of the seat

Control devices

The quality and user friendliness of a control device not only determine driving comfort but also everyday independence. A control device with parameters tailored to the user's needs is therefore of crucial importance.

We offer two control devices to ensure that operating the Juvo is easy and comfortable in everyday life.

We offer a variety of special and environmental controls for alternative input methods.



VR2

All the essentials

The proven VR2 is our basic control device, which you can program to suit the personal needs of the user. The control

Depending on the power options installed on the Juvo, one of two different control panel versions can be used on the power wheelchair.

TENº

The ergonomics revolution

In cooperation with specialist dealers, therapists and users, we have succeeded in developing a small revolution premature fatigue, the innovative rotary dial with a 10° rotation angle permits fast regulation of the speed and the high resolution 3.5" colour display ensures a good overview.

A huge plus in terms of service: the housing, display and hand support with joystick can be replaced individually.

Last but not least: the standard integrated Bluetooth and infrared interface connects the control device to external communication devices quickly and reliably.





Special controls

From fine to coarse, anything is possible

Alternative input types can be used when standard joyswivel arm for control with the chin or lips.

The TEN° from Ottobock is required for using special and environmental controls. It is used to operate the wheelchair, control the environment, including communication devices, and to carry out seat adjustments.

The TEN° control device in detail

Light sensor

The automatic light sensor detects lighting conditions in the environment and therefore ensures optimum illumination of the display and keypad.

Display

The scratch-resistant, high resolution 3.5" colour display provides a good overview of the user interface. It features modern and easy to understand imagery.

Inputs

Various inputs are available for On/Off and Mode.

Housing

The aluminium housing is extremely robust and is available in various colours. Ordering the wheelchair and TEN° control device in different colours is possible as well.



Highlights at a glance



TEN° control device

Comfortable and fast operation of all control functions via integrated Bluetooth and infrared interface as well as high resolution 3.5" colour display.



Driver assistance

The caster wheel swing arm with the right suspension enhances comfort and adds a dash of colour. With front-wheel drive, the swing arm can also be equipped with assistance for directional stability.



Weight-dependent suspension

Various suspension packages are available depending on the load and the needs and preferences of the user.



Magnetic LED lighting

Clear light, clear design. The clear glass LED lamps are attached with a magnet and therefore easy to install. This protects against damage or loss.



Automatic circuit breaker

The automatic circuit breaker turns the power off and back on – which is important for transportation, storage or airline travel. It is mounted on the front and easy to reach.



VAS, Ergo Joint Biomechanical back support angle on the VAS. Uncomfortable shear forces can thus be naturally prevented.

The rear cover is easy to open. It conceals the respective driving electronics and the driver assistance module.

Safety

The user's safety is our priority. The following elements make it easier for him or her to navigate the Juvo. In addition, active safety solutions provide the power wheelchair with special driving characteristics.



• Anti-tippers: These wheels ensure that the wheelchair does not tip over to the front when driving downhill or braking hard. To ensure that the front-wheel drive Juvo maintains its climbing ability, the flexible anti-tip rollers fold back when they come into contact with an obstacle, such as a curb.



Active speed reduction

The control device can be programmed by you. Safeover on curves are strictly maintained. When the control device registers a steering motion for example, the speed is



Vibration compensation

The proper positioning of the input module is particularly important in the case of chin, lip or dental control. Precise

In particular, this should also be ensured in case of can detect these if desired and adjust the driving speed



Automatic straight-ahead

directional stability while permitting precise manoeuvring

We also recommend the gyroscope when digital inputs are



Caster swivel lock

With the caster swivel lock, the caster wheels remain in their straight-ahead position. This allows the user to

These occur when changing the driving direction, for example while driving backwards to exit a lift or on ramps. The lock can be ordered as an option.

Transportation

Transportation in a vehicle for transporting persons with reduced mobility

A safe arrival

All Juvo drive versions are tested and approved according to ISO 7176-19 for transporting the user in a vehicle while

Numerous head supports have now also been approved to remain on the wheelchair during transportation. For further information and possibilities, consult our technical field





Dahl Docking System*

The docking system from Dahl Engineering is It allows power wheelchairs with a net weight vehicle, regardless of the user weight. Users of power and manual wheelchairs can be positioned behind the steering wheel as the driver or elsewhere in the vehicle. All Juvo mobility bases are prepared and tested for accepting combination with our Recaro seats.

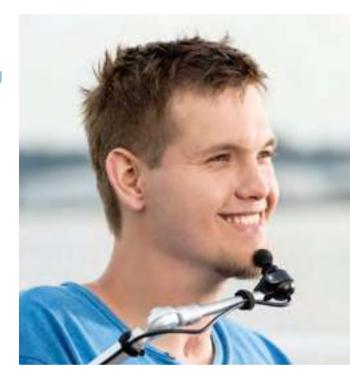
* Available from July 2018



Convincing quality

Ottobock and "Made in Germany" quality have been closely linked from the very first. We set high standards for reliability and accuracy during development and fabrication. Before we release a product for official tests, for example by TÜV, we increase what are called stress tests to at least double the values in our internal testing. Our products are therefore among the most reliable on the market.

All products undergo a unique 100-hour test during the development phase. An independent engineer subjects them to driving tests under maximum load with above-average inclines and under real conditions. These results help us perfectly coordinate the drive train consisting of the control device, motors and batteries and enable us to provide realistic values, for example for the driving distance range and climbing ability.



Custom fabrication

The sophisticated modular design of the Juvo power wheelchair helps us reach many users with very

Our goal is to meet the user's individual wishes, making everyday life easier on the journey to greater ingly impossible possible.

Motors

The drives are tailored to the control electronics and distribute forces evenly, including at low speeds. Selecting





Service

To ensure consistent driving characteristics and a long quickly and easily by flipping the seat over.

Quick mobile - replacing the drive unit

immediately restore the operability of the Juvo, the user will add-on components during the repair. The chassis and seat of the Juvo B5/B6 are simple to separate, which means you

Options and accessories

The Juvo wheelchair features a number of extras and options, which we present below.













Mechanical steering caster lock



Beverage holder

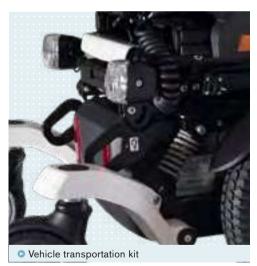


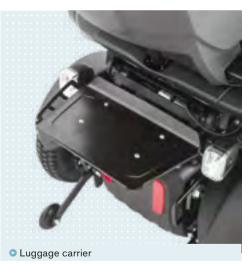
30 Ottobock | The Juvo family

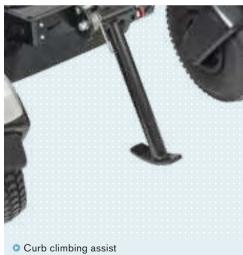












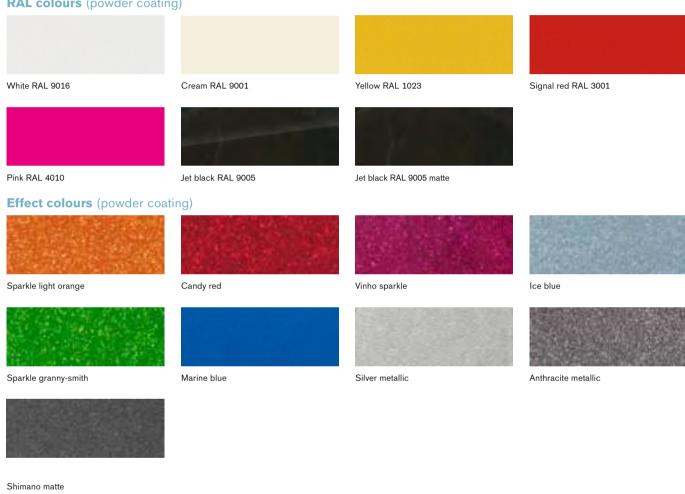






Colours

RAL colours (powder coating)



Sparkle granny-smith

Anthracite metallic

Silver metallic

Marine blue

•

Shimano matte

Sparkle light orange

Vinho sparkle

lce blue

Candy red

NOTICE

Before preparing the printing data, please adapt the dots in the table to the established country configuration for the Option

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•						•
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- Option without upcharge
- Option with upcharge

Housing of the TENº control device

The high-quality aluminium housing of the TEN° control device is now available in the wheelchair and TEN° control device.



Illustration shows coloured cover on Juvo B4

Swing arm or coloured cover

Coloured accents can be added to the Juvo B5/B6 by ordering the swing arms, designer plate or luggage carrier in the same colour. A personal touch can be added to the Juvo B4 by installing the additional coloured cover and the designer plate. A total of 16 colours are available depending on the

Baxx line

The complete Baxx line is available in the wheelchair colours as well as additional colours. We offer this large selection of colours exclusively for



Technical data Options/accessories matrix

NOTICE

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on (dot: Ottobock Greyish Brown)	B5/B6 front-wheel drive	B5 / B6 mid-wheel drive	B5 / B6 rear-wheel drive	B4 configurable rear-wheel drive
Mobility base sizes				
Exterior width 585 mm (maximum load 140 kg)				•
Exterior width 595 mm (maximum load 140 kg)		••••••		•
Exterior width 600 mm (maximum load 140 kg)	•	•	•	
Exterior width 640 mm (maximum load 160 kg)	•	•	•	
Weight when empty				
From	120 kg	120 kg	120 kg	93.5 kg
Speeds				
6 km/h	•	•	•	•
7.2 km/h	•	•	•	•
10 km/h	•	•	•	•
14 km/h			•	
Rated battery capacities				
AGM 53 Ah (C5), 62 Ah (C20)	•	•	•	•
Gel 63 Ah (C5), 74 Ah (C20)	•	•	•	•
AGM 63 Ah (C5), 74 Ah (C20)	•	•	•	
AGM 75 Ah (C5), 80 Ah (C20)	•	•	•	
Battery chargers*			·	
5A, with fan				•
8A, fanless (only for 53 Ah batteries)	•	•	•	•
10 A, fanless, IP44	•	•	•	•
12 A incl. external charging receptacle (mounted on right side)	•	•	•	•
Max. charging time				
12 h	•	•	•	•
Range (according to ISO 7176-4) up to				
25 km	•	•	•	
35 km	•	•	•	•
45 km	•	•	•	•
Control devices with lighting according to German Motor Vehicle Safety Standards (StVZO)				
VR2 70 A				•
VR2 90 A	•	•	•	•
R-net LED-L 90 A				•
TEN° 90 A		•		•
TEN° 120 A	•	•	•	
Special and environmental controls	•	•	•	
Drives				
Performance 4-pole motors	•	•	•	•
High-performance 4-pole motors	•	•	•	•

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	B5/B6 front-wheel drive	B5/B6 mid-wheel drive	B5 / B6 rear-wheel drive	B4 configurable rear-wheel drive
Obstacle climbing ability height				
50 mm				•
65 mm		•	•	
85 mm (with curb climbing assist and 9" caster wheels)				•
90 mm (with curb climbing assist and 10" caster wheels)				•
100 mm	•		•	
Climbing ability (according to ISO 7176-2)		-		
7°/12%				•
10°/17%	•	•	•	
Minimum turning radii (according to ISO 7176-5) from				
750 mm	•	•		
800 mm				•
965 mm			•	
Driver assistance				
Mechanical track stabiliser	•			
Electronic (gyro module)	•	•	•	•
Seat heights (measured from floor to top of seat plate)				
Standard seat Junior, 410 – 570 mm	•	•	•	•
Standard seat small, large, XL, 410 – 570 mm	•	•	•	•
VAS, 430–570 mm	•	•	•	•
Seat widths				
Standard seat Junior, 340 – 400 mm	•	•	•	•
Standard seat small, large, 380 – 480 mm	•	•	•	•
Standard seat XL, 500 – 560 mm	•	•	•	•
VAS, 380–540 mm	•	•	•	•
Seat depths				
Standard seat Junior, 340–400 mm	•	•	•	•
Standard seat small, large, 380-500 mm	•	•	•	•
Standard seat XL, 420-500 mm	•	•	•	•
VAS, 380 – 580 mm	•	•	•	•
Back support heights				
Standard seat Junior, 370/420/470 mm	•	•	•	•
Standard seat small, large, 450/500/550 mm	•	•	•	•
Standard seat XL, 450/500/550 mm	•	•	•	•
VAS, 450/500/550 mm	•	•	•	•
Back support angle adjustments				
Standard seat mechanical: 0/10/20/30°, -9/1/11/21°	•	•	•	•
VAS mechanical: -5/0/10/20/30°	•	•	•	•
Standard seat and power VAS: 0° to +30°	•	•	•	•

Before preparing the printing data, please adapt the dots in the table to the established country configuration for the respective model: standard equipment (dot: Ottobock Blue) or option (dot: Ottobock Greyish Brown)

Technical data Options/accessories matrix

	B5 / B6 front-wheel drive	B5/B6 mid-wheel drive	B5 / B6 rear-wheel drive	B4 configurable rear-wheel drive
Electric seat adjustments				
Seat tilt 20°				•
Seat tilt 45° (with centre of gravity shifting)	•	•	•	•
Seat height adjustment 350 mm	•	•	•	•
Seat height adjustment 350 mm with 45° seat tilt (with centre of gravity shifting)	•	•	•	•
Seat inclination	_			
-3°/0°/3°/6°/9°	•	•	•	•
Arm support heights				
227.5 – 400 mm (standard seat)	•	•	•	•
205 – 245 mm (standard seat Junior)	•	•	•	•
200 – 360 mm (VAS)	•	•	•	•
Lower leg lengths				
150 – 540 mm	•	•	•	•
Ottobock seat cushion range				
Black cover (cushion thickness 50 mm)	•	•	•	•
Incontinence cover	•	•	•	•
Terra, Terra Aquos, Terra Flair (max. load 150 kg, cushion thickness 60 mm)	•	•	•	•
Z-Flo (max. load 150 kg, cushion thickness 70 mm)	•	•	•	•
Cloud (cushion thickness 110 mm)	•	•	•	•
Advantage (max. load 125 kg, cushion thickness 80 mm)	•	•	•	•
Contour seat (cushion thickness flat 70 mm, deep 90 mm)	•	•	•	•
Back support version				
Back support upholstery, adaptable	•	•	•	•
Contour back support pad flat/deep/adaptable contoured (seat depth reduction by approx. 20 mm)	•	•	•	•
Baxx aluminium flat top back support (maximum load 113 kg, seat depth reduction by approx. 20 mm)	•	•	•	•
Ottobock head support range				
Head and neck supports (various versions)	•	•	•	•
Ottobock belt range				
Chest belt/shoulder harness	•	•	•	•
Lap belts (various versions)	•	•	•	•
Leg supports				
Mechanical angle adjustment	•	•	•	•
Power angle adjustment	•	•	•	•
Caster fork/swing arm				
Suspension	•	•	•	•
No suspension	•	•	•	•

Before preparing the printing data, please adapt the dots in the table to the established country configuration for the respective model: standard equipment (dot: Ottobock Blue) or option (dot: Ottobock Greyish Brown)

	B5 / B6 front-wheel drive	B5/B6 mid-wheel drive	B5 / B6 rear-wheel drive	B4 configurable rear-wheel drive
Caster wheels	_			
6" polyurethane, puncture-proof		•		
8" polyurethane, puncture-proof				•
9" pneumatic, puncture-resistant	•		•	•
9" polyurethane, puncture-proof	•	•••••	•	•
10" pneumatic, puncture-resistant	•		•	•
10" polyurethane, puncture-proof	•		•	•
Drive wheels				
12" polyurethane, puncture-proof			•••••	•
14" pneumatic, puncture-resistant	•	•	•	•
14" polyurethane, puncture-proof	•	•	•	•
Tyre colour				
Grey	•	•	•	•
Black	•	•	•	•
Tread pattern				
Rib tread (tyre colour grey only)	•	•	•	•
Lugs	•	•	•	•
Caster wheels with rib tread, drive wheels with lug tread	•	•	•	•
Accessories				
Pocket for mobile phone	•	•	•	•
Luggage carrier	•	•	•	•
Crutch holder	•	•	•	•
Rear view mirror	•	•	•	•
Tool kit	•	•	•	•
Beverage holder	•	•	•	•
Airman pump	•	•	•	•
External horn	•	•	•	•
Tray	•	•	•	•
Push handles for VAS	•	•	•	•
Lateral leg pad for mechanical and power elevating leg supports	•	•	•	•
External power supply receptacles: 12 V, 24 V, USB charging receptacle	•	•	•	•
Attendant control	•	•	•	•
Easywave wireless module	•	•	•	
LED lighting (secured by magnet)				
Automatic front light (mounted on right side)	•	•	•	•
Front and rear lights with flashers (in accordance with German Motor Vehicle Safety Standards (StVZO))	•	•	•	•
Mobility base accessories				
Splash guard for drive wheels	•	•	•	•
Splash guard for caster wheels	•	•	•	•
Rear marker plate (in accordance with German Motor Vehicle Safety Standards (StVZO))	•	•	•	•

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Technical data Options/accessories matrix

	B5 / B6 front-wheel drive	B5/B6 mid-wheel drive	B5 / B6 rear-wheel drive	B4 configurable rear-wheel drive
Caster wheel swivel lock				
Mechanical	•		•	•
Mobility base safety accessories				
Curb climbing assist			•	•
Vehicle transportation kit (in accordance with ISO 7176-19)	•	•	•	•



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In addition to the product options offered, please see the respective product order form for more options.

