

ottobock.

Juvo

Power wheelchair for more independence

Quality for life

“We are Pierre, Nadine and Anja. What we need from a power wheelchair is as different as we are. But thanks to the Juvo modular system, we each drive a model that has been tailored to our needs. A rehabilitation technician designed a special formula especially for us, which resulted in custom power wheelchairs. And most importantly, they’re great for everyday use. For us, that’s reason enough to give the Juvo a ‘thumbs up’ as a perfect companion.”



Pierre

If there's entertainment to be had near the water, the 28-year-old from northern Germany and his friends will rarely pass it up. Even when it's flooded with tourists during the high season, Pierre can't keep away from the harbour promenade.



Nadine

Nadine's husband had a very special surprise for her on their first wedding anniversary. He gave his wife – who's always upbeat and romantic – a day on a houseboat.



Anja

Aside from taking care of her small family and running the household, the 35-year-old handles various consulting and care assignments on a volunteer basis. But the wife and mother from Chemnitz doesn't even consider it worth mentioning.

Pierre is always ready to go

Pierre will never give up his love of life, and the fact that he has been a paraplegic since a traffic accident eleven years ago hasn't changed that.

A native of northern Germany with an innate love of the Baltic Sea, Pierre simply relies all the more on the technical support provided by his power wheelchair. It helps him live his everyday life as independently as possible. His custom Juvo lets Pierre do everything he wants to do, both outdoors and indoors.

If there's entertainment to be had near the water, the 28-year-old and his friends will rarely pass it up. Even when it's flooded with tourists during the high season, Pierre can't keep away from the harbour promenade.

"People are considerate and make room for me," Pierre says, "when they see our crew coming. I want to get a place in the front row at concerts in particular." So far, the office administrator has had mostly good experiences on public transport as well and has found that people are happy to help. But he still thinks it's great that his employer, the German Red Cross, is located just a few hundred metres from where he lives. "The trip there is short, and working in the office is a lot of fun." Pierre operates all his communication media with a chin control device.



"Cruising a promenade on the Baltic with my friends in the summer – that's pretty much a perfect day."



Friends for life

Pierre's closest friends still include those he knew growing up. So it's important to him that his wheels are as flexible as possible when he's out and about with them.



Pure romance

Husband Nick's houseboat surprise on their first anniversary wasn't just a hit – it made Nadine fall in love with him all over again.



“I’m a totally positive person, and that’s definitely thanks in part to the love and support my brand-new husband Nick gives me.”



It's all about the romance

Nadine's weakness for castles and palaces in beautiful landscapes isn't the only sign that she loves romance. Which is why her husband Nick thought up something very special for his wife on their first wedding anniversary: a houseboat tour for lovers – including a picnic on board and floating past a castle's facade. The owner of the company that provides this water attraction is also a wheelchair user, so they're familiar with the special needs of their guests.

What Nick finds so unique about Nadine is her enthusiasm for new experiences. He was continually amazed by her love of discovery on their honeymoon to Italy. "We started in beautiful Lake Garda," Nadine gushes, "and travelled to various Italian cities." The German couple enjoyed Milan and Venice in particular. Today, Nadine can chuckle about the lack of accessibility they ran into here or there at hotels. "Nick and I are quite good at helping ourselves out in these kinds of situations."

Once they were back home, their new allotment and its garden shed, which needed thorough cleaning and renovation, was waiting for them among other things. "We already replaced the roof with my family's help," Nadine says. "The faster the harbour is finished, the sooner we will be able to use the property with our dog." Close family ties are important to Nadine. "My brother actually got married the same year as I did. It was a very beautiful and intense time for all of us."

If Nadine has her way, the boat trip will soon be followed by other excursions. "My husband," Nadine says proudly, "is a real find in this regard. He's enthusiastic about most of my hobbies and passions, such as music and working with animals."

Balancing family and a love of volunteering

Anyone who hears about what her day-to-day life involves wonders how Anja is able to balance all these responsibilities. Aside from managing her small family and running the household, the 35-year-old handles a variety of consulting and care assignments on a volunteer basis. But the wife and mother from Chemnitz, who has had a progressive neuromuscular disease since childhood, doesn't even consider it worth mentioning.

She says she owes a great deal of her flexibility to the Juvo power wheelchair, which she was able to specially adapt to her needs and requirements. "Before, I had to ask for help to hang out the laundry or reach higher shelves in the supermarket. Now I can adjust my seat to the height I need." The manoeuvrability of the Juvo and its narrow width, which lets her negotiate tight corridors, is a big plus, especially in labyrinthine doctor's

and therapy practices. "I prefer to spend the time I save that way with my son Pascale in his favourite museum." She relies on the mid-wheel drive she selected on these trips. "I first had the chance to test this drive type during rehabilitation and loved it straightaway."

Since Anja has a rather rare form of her disease, she doesn't know what the future holds. Her Juvo will definitely be part of it, helping her make the best of each day with her family's support.





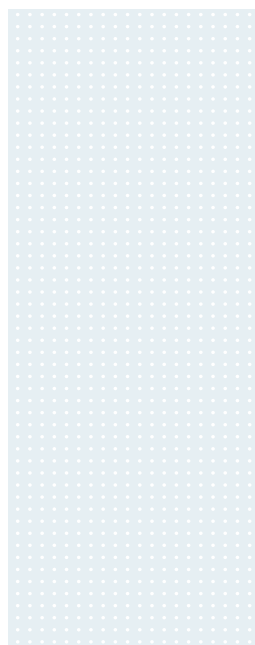
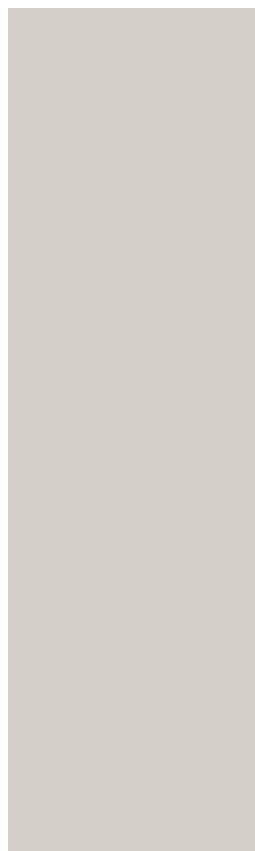
“Our city has tonnes of museums. My Juvo gives me the independence to go exploring with my son.”

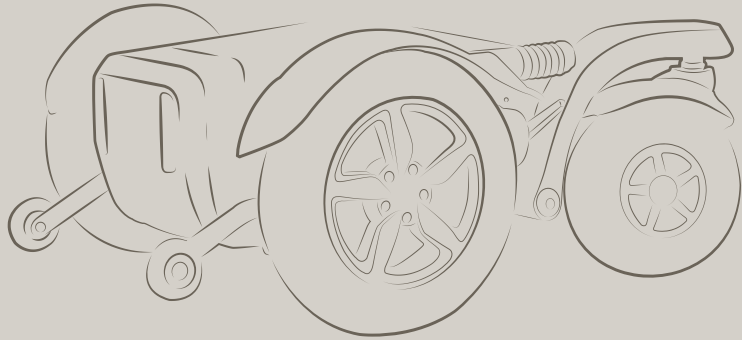


Nothing is impossible

Being as independent as possible is important to Anja. She is proud that she can do almost anything herself and rarely has to ask for help.







Drive types

Choosing the right drive type is crucial when it comes to living the carefree everyday life you want. The Juvo wheelchair is available with three different drive types. It also offers a choice of numerous options thanks to the modular design. The following pages are intended to serve as a starting point. Ask your specialist dealer or solution manager for further information and an in-depth consultation.



The right drive for everyone

The Juvo offers an appropriate drive solution for everyone. Pierre, who works in a barrier-free environment, is often on the go outdoors in his free time. That's why he chose a wheelchair with a rear-wheel-drive.

Nadine, who is rather delicate, uses the Juvo's more manoeuvrable front-wheel drive.

The mid-wheel drive supports Anja in her day-to-day life. She benefits from this most agile version at home and when she is out and about.



Front-wheel drive

This drive type is not only compact but also features good obstacle climbing ability, for example to overcome curbs. With its relatively small turning radius and the option to drive close to objects (such as furniture), the front-wheel drive

Juvo is manoeuvrable and ideal for indoor use. We recommend testing this drive type extensively in your environment due to the special driving characteristics.

- Relatively small turning radius
- Tight turning behaviour
- Drives up close to objects
- Good climbing ability
- Suitable for indoor use





Rear-wheel drive

The rear-wheel drive sets the standard for power wheelchairs due to its versatility. Not only does it offer numerous variations in terms of speed and features, the design also permits optimal distribution of forces to the driving surface.

Choose the rear-wheel drive if you want mobility indoors and also intend to go on regular outdoor excursions. The rear-wheel drive Juvo expertly masters the latter in particular. Thanks to its directional stability and good performance at higher speeds, the Juvo with rear-wheel drive is the perfect partner for outdoor use.

- Good directional stability, even at higher speeds
- Variety of seat positioning options
- Optimal force distribution
- Suitable for indoor and outdoor use



Mid-wheel drive

The mid-wheel drive is the all-rounder among the drive types. It features incomparable driving characteristics for all fields of application. The tight turning radius is suitable for indoor use, and it provides added stability and safety outdoors. Thanks to the direct pivot point, safe handling is possible even with more complex forms of input. The single-wheel suspension and torsion drive system form the basis for this intuitive drive type.

- Intuitive movement and driving thanks to central pivot point
- Maximum stability against tipping
- Optimum weight distribution
- Low centrifugal forces
- Suitable for indoor and outdoor use





Seating solutions

The seat you select plays a crucial role, serving as the interface between you and your power wheelchair. That's why good seating solutions take into account the individual requirements of each user. The main focus here is on improving comfort, health and functionality. Your solution manager will be happy to discuss the following options with you in detail.



The right seat for any body type

The Ottobock seating philosophy is based on the conviction that everyone has unique requirements for their wheelchair seat. We offer a range of modules that can be combined with one another to create a seating solution that is customised for each wheelchair user.

Variably adjustable seat

The new VAS seat (variably adjustable seat) can be precisely adapted to the user's measurements by the specialist dealer.

The VAS seat comes with an adjustable padded back support and a flat seat cushion as standard equipment. The Ergo Joint back support angle adjustment is almost entirely free from uncomfortable shear forces. Its profiled seat frame holds lateral guides and holders for means of communication such as a talker. Elevating arm supports and a broad range of leg support versions are optionally available.





Contour package

Our collaboration with physiotherapists and occupational therapists has resulted in an optimally shaped seat that can be ordered in a wide range of sizes and contours. The front seat base is formed by the anatomically shaped seat surface, which offers a high level of lateral stability. Moulded to the shape of the thigh, the cushion helps relieve the hip joint. An integrated “ramp” also aids the optimal positioning of the pelvis. Together with the back support pad, it helps to actively straighten the pelvis. Both components of the contour package can be combined with the standard and VAS seating solutions.



Seat cushion

Thanks to our experience with high-tech foams used in automotive seating, we have succeeded in developing foam-based solutions for users who need to sit for long periods.

This has resulted in the new Terra Flair, Terra Aquos and Terra products. Due to improved molecular mobility under load, the foam optimises pressure redistribution 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 Comfort, Floam and Terra lines.



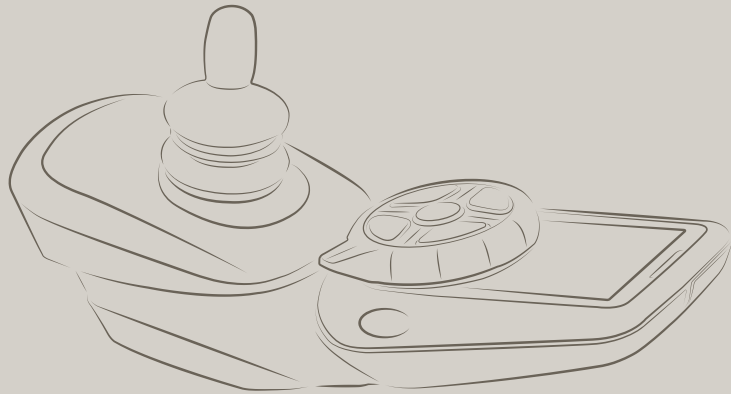
Baxx back support

The Baxx back support consists of ergonomically shaped, rigid back shells offering a high level of stability and sitting comfort for everyday use. Two different heights and three contours allow for individual adaptation to your requirements. The top of the back support is padded to make sitting especially comfortable.

Large recesses in the back shell make it lightweight and improve the sitting “climate” thanks to good ventilation. The aluminium back shell is available in a variety of colours. The Baxx back supports can be combined with the VAS seat.



Control devices



Ottobock offers a selection of control devices so the Juvo can be conveniently operated on a day-to-day basis. From the TEN° tray module or LCD screen to the VR2 basic or attendant control devices – you and your solution manager work together to decide which of the different versions is best for your needs. Talk to your solution manager about our special and environmental controls if you require an alternative input method in addition to these control devices.



VR2



TEN° tray module



TEN° hand module



TEN° LCD module

Choosing the right control device

The quality and user friendliness of a chosen control device not only determine your comfort when driving the Juvo wheelchair, but also set all the parameters for your everyday independence. This makes it crucial that your control device is precisely tailored to your individual needs.

VR2

The proven VR2 is our basic control device, which can be programmed to suit your personal needs. The control panel is divided into a keypad, two LED displays and a joystick. A charging receptacle is located on the underside.

Depending on the included power options, one of two different control panel versions can be chosen for the Juvo power wheelchair. Your specialist dealer or solution manager will be happy to provide you with detailed information regarding the respective advantages.



TEN°

The Ottobock TEN° hand module constitutes a small ergonomic revolution for you as a user. This handheld control device prevents premature fatigue thanks to its soft supporting surface. An innovative rotary control with a 10-degree rotation angle makes it easy to access the speed control. The high-resolution 3.5 inch colour display gives you a good overview of the user interface.

The also available new TEN° tray module provide all those features, integrated into a therapy tray. This positioning expands the functionality and helps you maintain an upright body posture. When needed, the module can be flipped over so the full tray surface is available.

- Innovative rotary control for quick access to various menu items
- Infrared and Bluetooth interface
- Soft hand support
- Connection for external buttons
- Control lever can be positioned freely
- Optional flip-over tray module with safety electronics

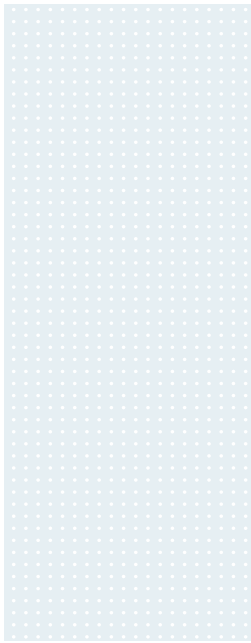
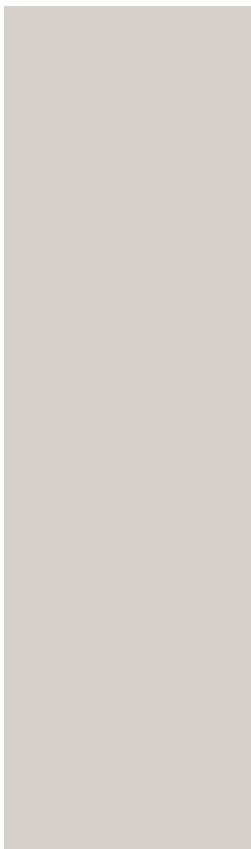


Special controls

Alternative types of input can be used when standard joysticks are not the best option. A mini joystick, for example, requires little force to operate and can be specially adjusted to your needs and abilities. In many cases, the mini joystick is mounted on an electronic swivel arm for control with the chin or lips.

But there's more. We're happy to provide you with additional input options for controlling your wheelchair. These can of course be used to control the seat functions as well as your communication devices and your home environment. Talk to your rehabilitation technician about a practical test to determine the best solution for your personal needs.

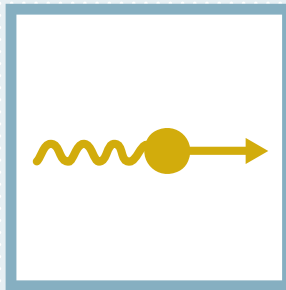




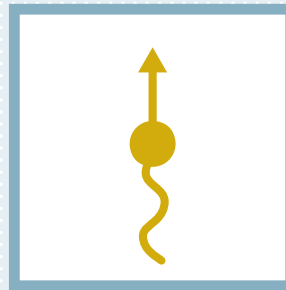


Safety and extras

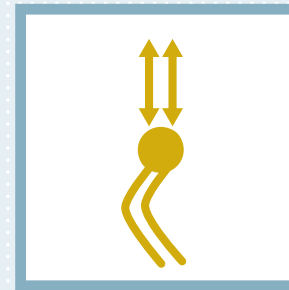
We want to explain our uncompromising approach to safety in detail below. In addition, we'd like to draw your attention to some extras that make the Juvo even easier to use on a daily basis for your attendants as well.



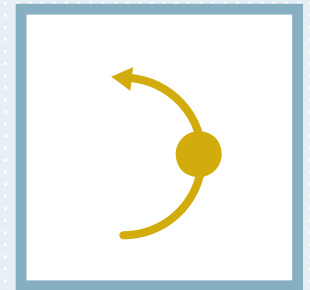
Vibration compensation



Gyroscope module



Caster swivel lock



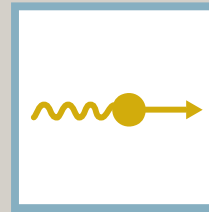
Slower driving in curves

Safety

We care about your safety – so it's our top priority. The following active safety systems give your power wheelchair special driving characteristics. They also make your Juvo easier to navigate.

Anti-tipper rollers

These rollers ensure that the wheelchair does not tip over to the front when driving downhill and braking hard (for instance when the control device is turned off). The flexible anti-tipper rollers fold back when they come into contact with the respective obstacle so that your front-wheel drive Juvo maintains its climbing ability (for example on curbs).



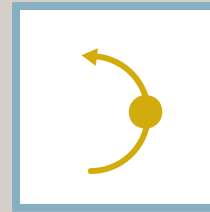
Vibration compensation

Correct positioning of the input module is particularly important when chin, lip or dental control is used. Effortless driving is possible only if it is aligned precisely. Our joysticks can detect vibrations caused by ground conditions such as cobblestones and adjust the driving speed automatically if desired.



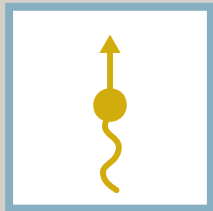
Hans Herold from Neuhaus, Germany, is an independent engineer who has been testing the motors of Ottobock power wheelchairs for safety and reliability for many years. Here's what he has to say about the new Juvo:

I put the Juvo motors through their paces in the course of a 100-hour test. The maximum possible body weight and resulting loads that the power wheelchair later has to withstand in day-to-day use are simulated by carrying extra weights. My work helps uncover potential areas for improving the current models and for future product development.



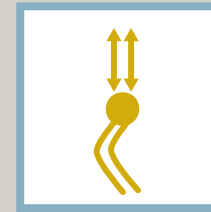
Slower driving in curves

Our control devices allow you to individually adjust the driving parameters. They are programmed for you by your rehabilitation technician or our solution manager. Safety-relevant values that prevent the wheelchair from tipping over on curves are strictly maintained. If the control device registers a steering motion, for example, it automatically lowers the speed.



Gyroscope module

This module is a stabilisation programme that offers users effortless driving. The reliable directional stability of your wheelchair not only eliminates inconvenient driving corrections but also lets you manoeuvre precisely on various surfaces and slopes. A gyroscope is also recommended when using digital inputs such as switch controls. It's part of the basic equipment of the front-wheel drive Juvo in conjunction with the TEN° control device.



Caster swivel lock

It's true that driving backwards is rarely necessary with a manoeuvrable wheelchair, but it can't always be avoided, for example when exiting a lift or on ramps. The undesired and difficult-to-control steering motion that occurs when the power wheelchair changes driving directions can be suppressed with a caster swivel lock. This keeps the fixed caster wheels in their straight-ahead position. The lock can be ordered as an option in a manual or power version.

Extras

The Juvo wheelchair features a number of extras, which are described in more detail below.

- Service
- Custom fabrication
- Optional accessories



Service

To ensure your Juvo has a long service life and is fun to drive, we recommend a thorough inspection by your service specialist in addition to the annual maintenance checks. It's also good to know that the battery can be quickly and easily changed in all series 5 and 6 Juvo chassis by folding down the seat.

Replacing the drive unit

In the unlikely case that your Juvo drive unit is replaced, you won't need to do without your usual seat and its customised add-on components during the repair time. This is because the unit is easy for the technician to exchange for the duration of the repair thanks to the option of separating the chassis and seat.



Optional accessories

You can expand your Juvo power wheelchair to include a selection of optional accessories. The USB interface (as seen on the left) offers a 12/24 V voltage for connecting additional devices such as respirators. If you would like extra lighting, you might be interested in our LED lighting with its attractive housing made of clear glass (see illustration to the right). But there's more. In addition to a magnetic charging connection, we offer a drinks holder as well as a sturdy luggage carrier, which is suitable for transporting items such as respirators.



Custom fabrication

The sophisticated modular design of the new Juvo power wheelchair helps us reach many users with very specific requirements. However, if there's anything else you need due to your special requirements, please speak to your specialist dealer or solution manager. Our goal is to meet your individual wishes, making your everyday life easier on your journey to greater independence. With your help, we make the impossible possible.

Extended mobility

The Juvo is also easy to transport, which guarantees it can support you in any life situation. Whether you're in a vehicle for transporting persons with reduced mobility, using the Dahl docking system as a passenger or behind the wheel – the Juvo is ISO certified and accompanies you to any destination.





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 sitting in the wheelchair.

Numerous head supports have now also been approved to remain on the wheelchair during transportation. For further information and options, please consult your specialist dealer or medical supply company.



Dahl docking system

The docking system from Dahl Engineering is offered and installed by many vehicle retrofitters. It allows power wheelchairs with a net weight of up to 200 kg to be safely positioned in the vehicle, regardless of the user weight. Users of power and manual wheelchairs can be behind the steering wheel as the driver or elsewhere in the vehicle. All Juvo mobility bases are prepared and tested for accepting Dahl adapters and belts. This system is also approved in combination with our Recaro seats.



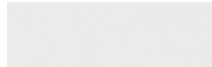





The Juvo at a glance

Technical data

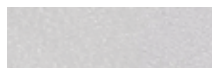
Speeds	6 / 7.2 / 10 km/h
Rated battery capacity	63 Ah (C5) / 74 Ah (C20) gel batteries
Driving distance range (acc. to ISO 7176-4)	35 km
Control device	VR2 or Ottobock TEN®
Max. load	Chassis size 1: 140 kg Chassis size 2: 200 kg
Obstacle height the wheelchair is able to overcome	Front-wheel drive: 100 mm Rear-wheel drive: 60 mm, optional 100 mm
Climbing ability (ISO 7176-2)	10° / 17%
Turning radius, min.	965 mm
Overall width	Chassis size 1: 600 mm Chassis size 2: 640 mm
Seat height (depending on seating solution)	400–550 mm
Seat width	340–560 mm
Seat depth	340–500 mm
Back support angle	0° to +30°
Seat tilt	45° power
Seat inclination	-3° / 0° / 3° / 6°
Back support height	450 / 550 mm
Arm support height	225–350 mm
Lower leg length	250–540 mm
Max. charging time	12 h
Weight from	107 kg

Colours

RAL colours (powder coating)

		
White RAL 9016	Cream RAL 9001	Yellow RAL 1023
		
Signal red RAL 3001	Jet black RAL 9005	Jet black RAL 9005 matte

Effect colours (powder coating)

		
Sparkle light orange	Candy red	Vinho sparkle
		
Ice blue	Sparkle Granny Smith	Marine blue
		
Silver metallic	Anthracite metallic	Shimano matte



With compliments from:



Otto Bock Human Mobility GmbH
Lindenstraße 13 · 07426 Königsee / Germany
www.ottobock.com