



WOLTURNUS

ADL W5

Strong active
rigid wheelchair



A wheelchair designed to make dreams come true



»» I've tried everything you can imagine in a W5. I've travelled all over the world and tested it to the limit. The W5 is reliable, it's a perfect fit, and it doesn't break."

Jens Holst, wheelchair-user

Jens Holst has an active and social life filled with family, friends, sport and voluntary work. He needs a wheelchair that can meet all the joys and challenges that a busy day brings. So only the best wheelchair is good enough. For the past eight years, the adventurous Danish dad has lived out his dreams - everyday dreams and his wildest dreams - in ADL W5 active wheelchairs.

- "I've tried everything you can imagine in a W5. I've travelled all over the world and tested it to the limit. The W5 is reliable, it's a perfect fit, and it doesn't break."

Jens naturally chose a custom-built W5 when he and three friends decided to travel from Skagen to Copenhagen - from the very Northern tip of Jutland to the West coast of the island of Zealand - in wheelchairs with bicycles strapped to the front. "How hard can it be?" the four wheelchair-users wondered? Hard enough to make the other three back out before the start. But Jens went ahead, travelling the distance of a full marathon every single day. Accompanied by his support car, he arrived in the Danish capital after nine demanding days on the road.

A former member of the Danish wheelchair rugby team, Jens plays a lot of sport. Both elite sport and an active, mobile daily life require a wheelchair that fits the individual user perfectly. That, says Jens, is where Wolturnus makes all the difference.

"Many of the other active wheelchairs are standard models. You have to screw on a whole lot of stuff before it fits you. But at Wolturnus, you get a chair made to your measurements so it fits you from the start," says Jens. "That makes it easier to use and gives it a much nicer appearance."

A rigid, robust wheelchair also comes into its own when the family is having fun, he adds. Dad naturally goes along when they go sledding, he cheers his son on at the football pitch - and perhaps in the future he'll go along on another adventure himself.

ADL W5 SERIES

Standard and customised models



ADL W5 - light and hard-wearing for active users

- › Customised for experienced users who know their requirements
- › Robust with rigid back and rear axle
- › User weight max 170 kg



ADL W5 A Standard - adjustable standard model

- › Standard sizes with a range of seat widths
- › Flexible and fully adjustable
- › User weight max 140 kg



ADL W5 S - elegant and easy to stow in a car

- › Customised for experienced users who know their requirements
- › Arched frame tubes between castors and wheels give light, elegant look.
- › Robust with rigid back and rear axle; user weight max 140 kg



ADL W5 SA - elegant, adjustable, easy to stow in a car

- › Fully adjustable standard model or customised with optional adjustability
- › Arched frame tubes between castors and wheels give light, elegant look
- › Easy to stow in a car; user weight max 140 kg



ADL W5 D - with flip-up footrests

- › Fully adjustable standard model or customised with optional adjustability
- › Separate flip-up footrests for easy access
- › User weight max 140 kg



ADL W5 XXL - reinforced for larger users

- › Fully adjustable standard model or customised with optional adjustability
- › Reinforced frame and rear wheels; pneumatic tyres
- › User weight max 250 kg



ADL W5 K - for users with short leg length

- › Fully adjustable standard model or customised with optional adjustability
- › High-mounted footrest for short lower leg length
- › User weight max 140 kg



ADL W5 SL - Extremely light and elegant

- › Rigid and robust experienced users who know their requirements
- › Light frame and design with narrow frame tubes
- › User weight max 80 kg



» ADL W5

Strong and stable for an active life

ADL W5 is designed for an active life. This light, robust rigid wheelchair has the optimum strength-to-weight ratio and therefore makes optimum use of your energy.

ADL W 5 is a customised model. It is made to fit your measurements and to meet your requirements. The wheelchair is suitable for experienced and active users who know their requirements. The backrest and rear axle are fully welded. The wheelchair has no moving parts. It is therefore extremely rigid and robust, which means that all your energy is harnessed for propulsion.

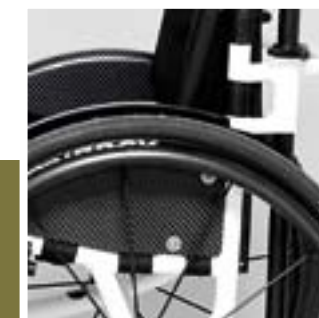
ADL W5 key features

- › Customised active rigid wheelchair
- › Adapts to your requirements
- › Strong and robust with rigid back and rear axle
- › Easy to handle and manoeuvre with minimum effort
- › Extremely high stability and low weight
- › Propulsion weight from 6,5 kg
- › User weight max 170 kg



› FIXED REAR AXLE

Fixed rear axle ensures strength, rigidity and less weight on the wheelchair



› FIXED BACK

Stabilises the wheelchair, makes it more robust yet lighter



› ERGONOMIC SEAT

Adjustable seat and back upholstery ensures ergonomic, upright posture and freedom of movement



» ADL W5 A STANDARD

Strong and adjustable to meet changing challenges

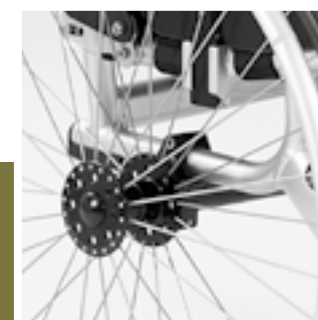
ADL W5 A Standard is designed to meet life's changing challenges. This active rigid wheelchair is fully adjustable, so you can continually adapt the seating position and wheelchair set-up to suit your requirements and wishes.

Adaptable features include a stepless adjustable balance point; angle and height-adjustable back; and angle and height-adjustable footrests.

The frame form, folding back, detachable side panels and rear wheel with quick-release axles ensure that it is easy to stow in a car. ADL W5 A Standard is available in standard sizes with a range of seat widths.

ADL W5 A Standard key features

- › Active rigid wheelchair in standard sizes
- › Adjusts to meet changing requirements
- › Easy to handle and manoeuvre
- › High stability and low weight
- › Stepless adjustable balance point
- › Angle and height-adjustable folding back
- › Angle and height-adjustable footrests
- › Detachable Dibond side panels
- › Propulsion weight from 8.5 kg
- › User weight max. 140 kg



› ADJUSTABLE REAR AXLE

Optimise the balance point and try out different seating positions



› ADJUSTABLE BACKREST ANGLE

Folding back with adjustable angle that allows for varied seating positions



› ADJUSTABLE BACKREST HEIGHT

Back height adjustable with use of different seating cushions

DID YOU **KNOW**

that 4 of our 35
staff are
wheelchair users





» ADL W5 S

Elegant and practical for an active life

ADL W5 S is both practical and elegant. It is designed for an active life. With arched frame tubes between the castors and rear axle, it is easy to stow in an ordinary car.

ADL W5 S is a customised model. It is suitable for experienced users who know their requirements. The backrest and rear axle are fully welded. The wheelchair has no moving parts. It is therefore extremely rigid and robust, which means that all your energy is harnessed for propulsion.

The seat and back upholstery are adjustable with straps, so you can continually adapt the seating position.

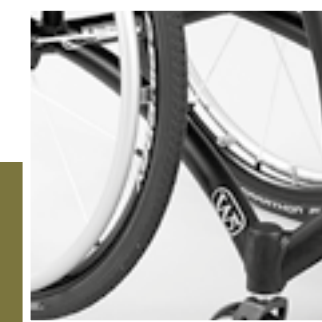
ADL W5 S key features

- › Customised active rigid wheelchair
- › Adapts to your requirements
- › Light and elegant design with arched frame tubes
- › Easy to stow in a car
- › Strong and robust with a fixed back and rear axle
- › Easy to handle and manoeuvre with minimum effort
- › Extremely high stability and low weight
- › Propulsion from 6,7 kg
- › User weight max 140 kg



› FIXED REAR AXLE

Fixed rear axle ensures strength, rigidity and less weight on the wheelchair



› ARCHED FRAME TUBES

Elegant design that also makes it easy to handle and transport



› SINGLE-HAND BRAKE

Effective braking even if one hand has restricted functionality



» ADL W5 SA

Elegant and adjustable to meet your wishes and requirements

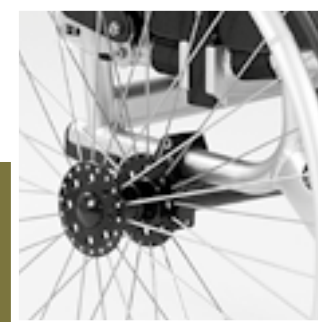
ADL W5 SA has arched frame tubes between the castors and rear axle. A practical, elegant variant of the feather-light ADL W5, it can be adjusted to meet your wishes and requirements.

Like the ADL W5 S, this model has arched frame tubes between the castors and rear axle. This gives it a light, elegant look and also makes it easy to stow in an ordinary car. Adaptable features include an adjustable balance point; angle and height-adjustable back; and angle and height-adjustable footrests. The arched frame tubes, detachable rear wheel, folding back and detachable side panels ensure that it is easy to transport by car.

ADL W5 SA is also available as a customised model with optional adjustability.

ADL W5 SA key features

- › Suitable for users who regularly need to adjust the seating position
- › Fully adjustable standard model or customised with optional adjustability
- › Easy to handle and manoeuvre
- › High stability and low weight
- › Stepless adjustable balance point (standard)
- › Detachable Dibond side panels (standard)
- › Angle and height-adjustable folding back and footrests (standard)
- › Propulsion weight from 8,5 kg
- › User weight max 140 kg



› ADJUSTABLE REAR AXLE

Optimise the balance point and try out different seating positions



› ADJUSTABLE BACKREST ANGLE

Folding back with adjustable angle that allows for varied seating positions



› ADJUSTABLE FOOTREST

The footrest can be angled to suit shoes and desired seating position



» ADL W5 D

Easy transfer with flip-up footrests

ADL W5 D, with flip-up footrests and detachable side panels, is designed for ease of transfer and ease when getting in and out of the wheelchair.

ADL W5 D has separate flip-up footrests and detachable side panels. Feet can be placed on the floor. It is suitable for active users. It is available in a standard model with a stepless adjustable balance point; angle and height-adjustable back; and angle and height-adjustable footrests. You can continually adapt the seating position. The detachable rear wheel, folding back and detachable side panels ensure that it is easy to transport by car.

ADL W5 D is also available as a customised model with optional adjustability.

ADL W5 D key features

- › Separate flip-up footrests for users who need easy access
- › Fully adjustable standard model or customised with optional adjustability
- › Easy to handle and manoeuvre
- › Stepless adjustable balance point (standard)
- › Detachable Dibond side panels (standard)
- › Angle and height-adjustable folding back and footrest (standard)
- › Propulsion weight from 9 kg
- › User weight max 140 kg



› SEPARATE FLIP-UP FOOTRESTS

Allows the feet to be placed on the floor during transfer



› REINFORCED UNDERNEATH THE FRAME

A stiffer frame accommodates the design with separate footrests



› ERGONOMIC SEAT

Adjustable seat and back upholstery ensures ergonomic, upright posture and freedom of movement

Our goal is...

-to create practical and functional wheelchairs that let you enjoy life and live life to the absolute max!





» ADL W5 XXL

Reinforced and effective for strong and large users

ADL W5 XXL is an active rigid wheelchair for active users whose high weight and physical strength places special requirements on wheelchair strength and conversion of energy to movement.

ADL W5 XXL is easy to lift and handle in everyday use. It is available as a standard model with reinforced frame, reinforced rear wheel and shock-absorbent pneumatic tyres that minimise rolling and turning resistance.

A stepless adjustable balance point; angle and height-adjustable back; and angle and height-adjustable footrests ensure optimum distribution of weight. The detachable side panels make transfer simpler. The detachable rear wheel, folding back and detachable side panels ensure that it is easy to stow in a car. ADL W5 XXL is also available as a customised model with optional adjustability.

ADL W5 XXL key features

- › Active rigid wheelchair for strong, larger users
- › Fully adjustable standard model or customised with optional adjustability
- › Easy to handle and manoeuvre
- › Extremely high stability and low weight
- › Reinforced frame and rear wheel with pneumatic tyres
- › Stepless adjustable balance point (standard)
- › Detachable Dibond side panels (standard)
- › Angle and height-adjustable folding back and footrests (standard)
- › Propulsion weight from 12 kg
- › User weight max 250 kg



› REINFORCED FRAME

Designed to meet larger users' special requirements for frame strength



› WELDED FOOTREST

Strong, light footrest that gives good foot support



› REINFORCED ANTI-TIP DEVICE

For greater safety while moving - optimal extra

High-mounted footrests for short leg length

ADL W5 K is an active rigid wheelchair designed for users with short leg length. The frame construction allows high mounting of the footrests behind the castors.

Because the footrests are mounted high behind the castors, rolling and turning resistance is greatly minimised and wheelchair stability is increased. ADL W5 K is available as a fully adjustable standard model with a stepless adjustable balance point; angle and height-adjustable back; and angle and height-adjustable footrests. You can continually adjust the seating position.

The detachable side panels made transfer simpler. The detachable rear wheel, folding back and detachable side panels ensure that it is easy to stow in a car. ADL W5 K is also available as a customised model with optional adjustability.

ADL W5 K key features

- › Suitable for users with short leg length
- › Fully adjustable standard model or customised with optional adjustability
- › Easy to handle and manoeuvre
- › High stability and low weight
- › Stepless adjustable balance point (standard)
- › Detachable Dibond side panels (standard)
- › Angle and height-adjustable folding back and footrests (standard)
- › Propulsion weight from 8 kg
- › User weight max 140 kg



› HIGH-MOUNTED FOOTRESTS

Shortens lower leg length; increase stability; gives a better motion experience



› DEEP FOOTREST

A deep footrest supports the whole foot and increases stability - optimal extra



› CENTRAL ANTI-TIPPING

Central mounting of anti-tip device reduces total weight



» ADL W5 SL

Light and elegant for the experienced and active user

ADL W5 SL has the same handling qualities as the ADL W5, but has a lighter frame and narrower frame tubes. This reduces weight whilst giving the wheelchair an elegant look.

ADL W5 SL is a customised model. It is made to fit your measurements and to meet your requirements. The wheelchair is suitable for experienced and active users who know their requirements and want a light wheelchair - also to look at. This super light rigid wheelchair has narrower frame tubes and a propulsion weight on 6 kg.

The backrest and rear axle are fully welded. The wheelchair has no moving parts. It is therefore extremely rigid and robust, which means that all your energy is harnessed for propulsion.

ADL W5 SL special features

- › Customised active rigid wheelchair
- › Strong and robust with a fixed back and rear axle
- › Easy to handle and manoeuvre
- › Can be adapted to meet your requirements
- › Light, simple and elegant design
- › Propulsion weight 6 kg
- › User weight max 80 kg



› NARROW FRAME TUBES

Narrow frame tubes reduces weight whilst giving an elegant look



› CASTOR FORK ATTACHMENT

Mono suspended castors and elegant attachment device. Light and easy to clean.



› FIXED REAR AXLE

Fixed rear axle ensures strength, rigidity and less weight on the wheelchair

Accessories for your ADL W5

A Wolturnus rigid wheelchair gives you the freedom to design the wheelchair you've dreamed of, unique to you. A 100% customised Wolturnus wheelchair, created from your personal choice of components, gives you the greatest possible freedom to live life to the max.

A selection from a large range of Wolturnus accessories that includes special solutions:



Height-adjustable push handles



Quick-release push handles



Bolt-mounted Tetra push handles



Fold-away push-button push handles



Cloud® seat cushion



Conturjel® seat cushion



Wing Cubic seat cushion



Catheter bag



Swing-away anti-tip device



Centrally-mounted anti-tip device



Wing Back - back system



TARTA - back system



Push brakes



Scissor brakes



Single-hand brake



Calf-support strap



Radial spoke rear wheel



Outdoor MTB rear wheel



Decon "Spider" rear wheel



Spinergy "Everyday" rear wheel



Grey castor



Skater castor



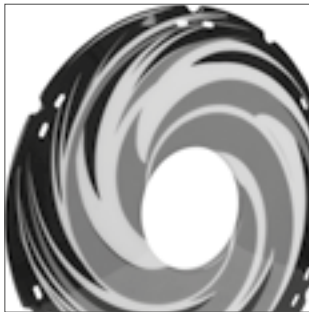
Skater castor with light



Aluminium castor with low rolling resistance



Power add-on drive



Spoke protector



Dibond side panels



Carbon side panels



Carbon side panel with side-guard



Aluminum side panel with side-guard, welded/bolted



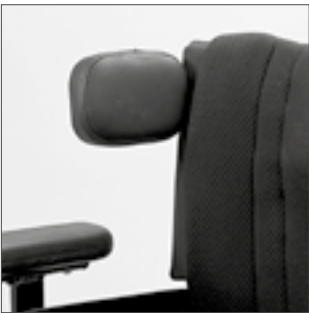
Aluminum side panels without side-guard



Swing-away armrest



Armrest with ABS panel



Body support



Head support



Welded footrest



Angle-adjustable footrest



Extended footrest



Stick-holder



Tipping pedal

Make your dream wheelchair come true

with accessories that suit you!

Technical data:	Standard wheelchair	Customised options / accessories
Frame		
Total width	Seat width +17 cm at 1° camber angle	
Balance point	Stepless adjustable	Fully-welded back axle
Seat height front/rear	48/42 cm	Customised measurements; raised bracket
Front frame	UV-shape	V-shape, U-shape
Lower leg length	Adjustable 39-45 cm	Customised measurements
Footrest depth	12 cm	Customised measurements
Footrest	Angle and height-adjustable footrest	Welded footrest; separate flip-up footrests; rubber-coated footrest
Push handles	None	Height-adjustable, folding or detachable push handles; folding push bar
Brakes	Push brakes	Pull brakes; horizontal push brakes; scissor brakes; low brake position; single-hand brake; extended brakes
Anti-tip device	None	Right or left swing-away; central mounting; reinforced
Colour	Anodised silver frame and black wheel fork	Customised frame and fork colour; monogram
Approved for fastening in car	Yes, with in-car restraint (optional extra)	Four-point restraint straps; Dahl docking station. Neck support and straps must be mounted.
Wheel		
Rear wheel	24" lightweight spoke wheel with quick-release axle	Lightweight spoke wheel; Decon Spider (black or silver); Spinerger (12/18 spokes) - black/white/blue/yellow/red; wheel with drum brakes; wheel with integrated motor; single-hand propulsion; radial; MTB; WREX
Push rim	24" silver anodised aluminium	Titanium, friction with edge; Decon; Dual Grip, plastic, stainless steel; Maxgrepp
Tyre	24" pneumatic tyre (grey) with high-quality Schwalbe tubes	Puncture-proof (massive); Schwalbe Downtown; Schwalbe Marathon Plus (black or grey); Schwalbe RightRun (blue or red); Schwalbe MTB Table Top or Landcruiser
Camber angle	3°	Customised fixed or adjustable 1-6°
Castor	4"/32 mm puncture-proof (grey)	Puncture-proof (grey or black); Frog Legs (aluminium); skater with or without light
Positioning		
Back frame	Folds; height adjustable 32-38 cm; angle adjustable ±4°	Fixed or adjustable height; customised narrow or broad back; folding/ non-folding; angle adjustable ±4-12°
Seat frame	Ergonomic seat	Straight seat
Adjustable seat (with straps)	Black nylon upholstery with adjustable seat depth 39-44 cm	Adjustable seat depth at optional intervals
Adjustable backrest (with straps)	Black two-ply, foam-filled, breathable, ventilating upholstery	Leather corners; all-leather; customised colour
Side panels and armrests	Detachable Dibond side panels	Carbon with/ without side guard; welded or bolted aluminium with/ without side guard; ABS with armrest; detachable swing-away armrests; folding side panels; side guards with protection against cold.

Getting fitted for a Wolturnus rigid wheelchair

Our consultants have many years of experience. They enter into a dialogue with users and ergotherapists about measurements, choices, trying out products, adjustment, maintenance and how to use the products. Using their expertise, they design active seating positions and advise users about frame-design options, choice of equipment and accessories. Getting fitted for a rigid Wolturnus wheelchair typically involves two consultations.

Before the fitting

To prepare for the fitting, your consultant needs to know:

- › Your weight, height, handicap and lifestyle
- › Your current wheelchair's seat width, trunk height, seat depth and lower leg length
- › Cushion choice

First consultation

Your consultant will visit with a standard adjustable model that, to the greatest degree possible, takes account of the information you provided in advance. Following an in-depth discussion about your daily routine and about your requirements, you will try out the wheelchair. Your consultant will adapt the chair to suit your anatomy and make adjustments to help you achieve an active seated position:

- › Seat depth adjusted to suit your cushion and leg length
 - › Backrest adjusted to suit your trunk height and shape
 - › Balance point adjusted
 - › Seat and back upholstery straps adjusted
 - › Footrest height and angle adjusted to suit your lower leg length and feet position
- Individual footrests are used for unequal leg length

When the wheelchair has been fully adjusted, you will assess your experience of the seating position. If the fully-adjusted standard wheelchair meets your requirements, wishes and needs, your wheelchair is now ready and it is yours to keep.

If you have special requirements that could not be met by the standard adjustable wheelchair, your consultant will take very precise measurements in order to customise a wheelchair.

Your consultant will review the order with you in order to confirm that everything meets your expectations.

Second consultation

Your consultant delivers the wheelchair to you and makes final adjustments to ensure a personal fit.

How to measure yourself

- seat width **A**
- seat depth **B**
- lower leg length **C**
- back height **D**
- back width **E**

A design team with great expert knowledge and insight into your needs

The Wolturnus design team

Our design team comprises both specialists from the cycling industry and wheelchair-users who have competed in elite sports at the highest level for years. Our product series are, therefore, based on intensive development; deep insight into your needs; and knowledge from extreme sports in which our wheelchairs and handbikes have excelled since 2002.

Customised solutions, made in Denmark

All Wolturnus wheelchairs and handbikes are made by hand in Denmark. Because we produce them ourselves, we have a unique opportunity to custom-build special solutions for individual customers, precisely adapted to meet their needs and wishes.

Geometry and accessories are key

The geometry of a wheelchair is key to the way it handles. Based on your body shape and posture, we design a frame that minimises rolling and turning resistance and maximises stability. Based on your body shape and weight, we specify the dimensions of the frame tubes. A heavier user is ensured a sufficiently strong, stable wheelchair. A lighter user will never have to drag surplus weight around.

Mounted accessories are carefully considered because any increase in weight influences

the way a wheelchair handles. We always recommend lightweight parts and accessories.

Focus on frame rigidity

The stiffness-to-weight ratio is key to the way a wheelchair handles. Aluminium is a lightweight metal with extremely high strength and rigidity.

Our frames are made of 7020 (AlZn4.5Mg1) aluminium. This is the strongest aluminium alloy that can be welded. It is more rigid than any titanium alloy. It is the preferred alloy for armoured vehicles, motorbikes and bicycle frames. Our unique Sigma Tubing technology optimises strength during the manufacture of large tubes with thin walls. Together, these achieve an extreme stiffness-to-weight ratio. The result is ultimate stability.

High-strength TIG welding

Wolturnus always employs TIG (Tungsten Inert Gas) welding. Combined with a protective argon-helium gas compound, this prevents grains from developing during the welding process. This ensures that the material retains its maximum strength.

Hardening and precise alignment ensure ultimate handling

Any tension that has arisen during the process is eliminated by heat-treating the frame at a very high temperature after welding.

The frame is then measured and any necessary adjustments are made to ensure that the final product is perfectly aligned. Finally, the frame is hardened by a process of precisely calculated temperature changes that restore maximum strength to every single microgram of aluminium.

Corrosion-resistant. Impact-resistant. Scratch-resistant.

The anodising process enables integral colouring, increases resistance and hardens the surface. A layer of aluminium oxide is added to the aluminium surface. Aluminium oxide is one of the world's hardest materials. It measures 9.7 on the 10-point Moh scale of relative hardness. (Diamonds: 10. Glass: 5.6.) The treatment results in an extraordinarily hard-wearing and maintenance-free surface. It ensures the ultimate in corrosion-resistance. It creates a coloured, durable surface that is resistant to dents and impacts.

Quality control

At Wolturnus, there is strict quality control of all products and processes during development and manufacturing. We optimise on a continual basis in accordance with new knowledge and new experience.



»» Made in Denmark

All Wolturnus wheelchairs are designed and manufactured in Denmark. Most wheelchairs are built on location to the specific measurements and requests of the individual customer.

» WOLTURNUS

Wheelchairs Built for Freedom

At Wolturnus, our fundamental basis for building wheelchairs isn't all the things that we know our customers can't do. It's all the things we know they *can* do.

What we do is build excellent wheelchairs. What we sell is a good life. A life free of worrying about your wheelchair breaking down and needing costly and time consuming repairs. Without worries of the wheelchair causing you painful health problems. A life with the opportunity to participate, to take an active part in the lives of your friends and loved ones.

We understand how important your wheelchair is to you. The perfect wheelchair is built to your individual needs and customised according to your particular wishes and your specific lifestyle, ensuring the best possible comfort and minimising the risk of sequela.

For many of our customers, the chair becomes an extension of the body, allowing for mobility that would otherwise have been impossible, an essential part of their identity and a natural part of life. But that symbiosis does not happen overnight and not with any wheelchair. Just like a pair of shoes, one size – and one model – does not fit all. No two people are the same, and no two wheelchair users have the exact same needs and the exact same lifestyle.

Whatever your lifestyle and whatever your definition of the good life, it's our job to make it happen. At Wolturnus, we build wheelchairs that allow you to live the life, you deserve.

» We look forward to building your good life.

