



WOLTURNUS

Tukan

Rigid wheelchair
with open frame



My Tukan
is built for
my life



THE TUKAN SERIES



Standard and
customised
models

» I've always loved this minimalist model. When you feel at one with your wheelchair, the possibilities are endless.

Birgitte Pedersen, wheelchair user

Birgitte Pedersen lives a perfectly normal life with husband, children and grandchildren. She never lets her wheelchair set limits - quite the contrary. Birgitte and her husband moved to a beautiful area in the Danish countryside. In this kind of rural place, it's not always easy to get around in a wheelchair. But this is where they wanted to live.

Birgitte has been a wheelchair user since she was 15 years old. For the past three years, she's lived her life using a Tukan rigid wheelchair. She already knows that, if she ever needs a new wheelchair in the future, she wants the exact same model.

"I've always loved this minimalist model. When you feel at one with your wheelchair, the possibilities are endless. I do feel at one with my Tukan. It is a natural extension of me. I was so pleased when I learnt that Wolturnus made a wheelchair with an open frame."

Birgitte reports that she has tested her wheelchair to extremes. Among other things, she's used it on a trip to Australia during which she went snorkelling off the Great Barrier Reef and, in 40° heat, negotiated 11 kilometres of rocky terrain around Ayers Rock.

"The wheelchair was easily up to the job. It can handle anything. Heat and the distribution of energy and water intake were the challenges."

Birgitte's Tukan can handle extremes but, even more importantly, it can handle her normal requirements both on special occasions and on a day-to-day basis.

It transports her in the garden, on hilly nature trips and to concerts, parties and dances. Most importantly of all, it is ideal when the grandchildren visit.

The wheelchair has been adjusted specifically to meet Birgitte's everyday needs. The front part of the frame and the footrest have been widened slightly to create a small standing space. Birgitte's grandchildren mean the world to her. This simple adjustment has brought their worlds even closer - now the grandchildren can crawl up on to granny's lap all by themselves



Tukan- light and durable for the active user

- › Customised for experienced users who know their requirements
- › Robust with fixed back and rear axle
- › User weight max. 120kg



Tukan A Standard - adjustable standard model

- › Standard sizes with a range of seat widths
- › Flexible and fully adjustable
- › User weight max. 120kg



Tukan A - Robust with optional adjustability

- › Customised for experienced users who know their requirements
- › Flexible with optional adjustability
- › User weight max. 120 kg



Strong and elegant for an active life

Tukan is a customised model. It is ideal for experienced and active users who know their requirements. It has no moving parts and is therefore rigid and robust.

The Tukan is made to fit your measurements and to meet your requirements. The backrest and rear axle are fully welded. The wheelchair has no moving parts. Therefore, even though it has an open design, it is extremely rigid and robust. This ensures that all your energy is harnessed for propulsion.

Choice of frame forms. There is a choice of arched or rectangular back and various seating frame reinforcements.

Tukan key features

- › Customised active rigid wheelchair
- › Adapts to your requirements
- › Strong and robust with fixed back and rear axle
- › Choice of rear axle forms
- › Easy to handle and manoeuvre
- › Extremely high stability and low weight
- › Easy to clean
- › Propulsion weight from 9 kg
- › User weight max. 120 kg.



› FIXED REAR AXLE

Choice of rear axle forms. A fixed rear axle ensures a robust wheelchair.



› WELDED FOOTREST

Fewer moving parts mean more rigidity and a wheelchair that is lighter to propel.



› OPEN FRAME

Tukan has an open frame that is easy to clean and that focuses on simplicity and elegance.

Elegant and adjustable to meet changing challenges

The Tukan A Standard is designed to meet life's changing challenges. It is fully adjustable, so you can continually adapt the seating position and wheelchair set-up.

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

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

Tukan 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 9.5 kg
- › User weight max. 120 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



› ANGLE ADJUSTABLE FOOTREST

optimise for maximum support



DID YOU
KNOW

that 4 of our 35
staff are
wheelchair users

Strong and robust with optional adjustability

Tukan A is a strong and rigid wheelchair with no moving parts yet with optional adjustability for active users who continually adapt their seating position.

The Tukan A is made to fit your measurements and is ideal for experienced users who know their requirements. The wheelchair has optional adjustability which ensures flexibility as regards seating positions. The Tukan A is both a strong, rigid wheelchair with no moving parts and an adjustable wheelchair that meets changing requirements.

There is a choice of adjustable rear axle, adjustable seat depth, angle and height-adjustable folding back, and angle and height-adjustable footrest.

Tukan A key features

- › Customised active rigid wheelchair
- › Adapts to your requirements
- › Easy to stow in a car
- › Detachable or fixed side panels
- › Stepless adjustable balance point (optional)
- › Adjustable seat depth (optional)
- › Angle and height-adjust. folding back (opt.)
- › Angle and height-adjustable footrest (opt.)
- › Propulsion weight from 10 kg
- › User weight max. 120 kg



› FIXED REAR AXLE

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



› ERGONOMIC SEAT

Adjustable seat and back upholstery ensures ergonomic, upright posture and pressure relief.



› DETACHABLE SIDE PANELS

Easy transfer

Accessories for your Tukan

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



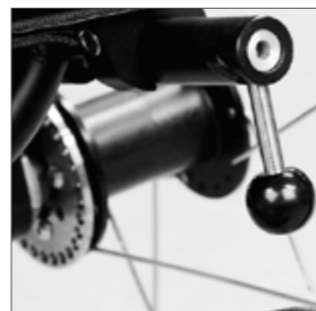
Wing Back - back system



TARTA - back system



Leather padding on back and corners



Single-stop brake



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



Swing-away anti-tip device



Centrally-mounted anti-tip device



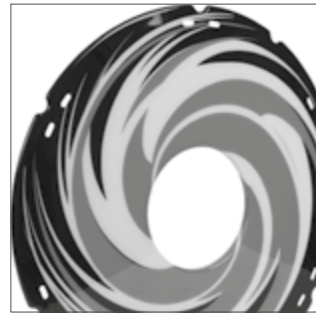
BATEC power add-on drive



Power add-on drive



Frame protectors



Spoke protectors



Aluminum side panel with side-guard, welded/bolted



Aluminum side panels without side-guard



Carbon side panels with side-guard



Carbon side panels



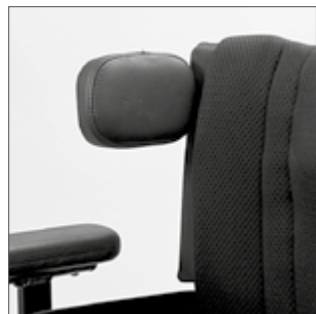
Dibond side panels



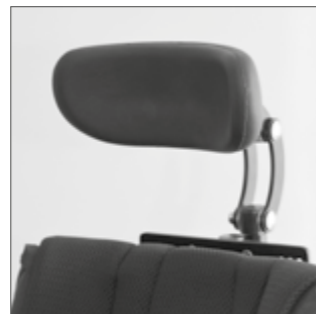
Swing-away armrest



Armrest with ABS panel



Body support



Head support



Welded footrest



Angle-adjustable footrest



Extended footrest



Stick-holder



Tipping pedal

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

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

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

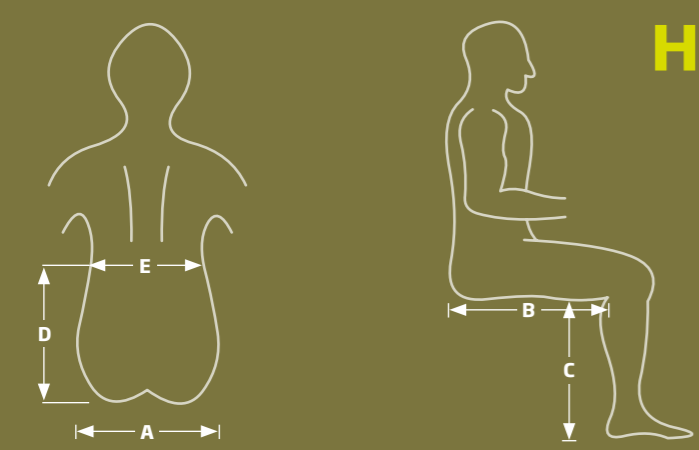
When the wheelchair has been fully adjusted, you will assess your experience of the seating position. If the fully-adjusted standard wheelchair meets your requirements, wishes and needs, your wheelchair is now ready and it is yours to keep.

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

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.**



WOLTURNUS