Handbikes
For leisure, recreational purposes and competitive sports

www.wolturnus.com
A Wolturnus handbike gives you so much freedom as well as physical and mental strength. I’m proud and thankful to have Wolturnus as a sponsor.

Jetze Plat, professional handbike rider

Since 2002, when the first athletes, competing with Wolturnus sports products, reached the podium at the Paralympic Games, we have been working enthusiastically alongside top athletes, building the best sports wheelchairs and handbikes in the world. We are deeply inspired by these athletes and find it hugely satisfying to help every athlete to achieve best possible results by providing him/her with the best handbike on the market.

Wolturnus manufactures handbikes for leisure, recreational purposes and elite sports. Our products are renowned for their aerodynamic design, speed and unrivalled durability.

Competing on their custom-made Wolturnus handbikes, top athletes from Austria, the Netherlands, France, Germany and Denmark have won medals at the Paralympic Games as well as National, European and World Championships.

Since the start of the 2017 season, Wolturnus launched its very own handcycling team: Wolturnus Pro Handcycling! The newly formed team consists of three of the world’s best professional handbikers, who have achieved great results in handbike races all over the world. In the upcoming season, the top athletes Jetze Plat from Holland, Patrick Gabriel from Germany and Michael Jørgensen from Denmark, will support each other to perform at their best at international handbike races.

The Wolturnus Pro Handcycling Team’s mission is to become a main player on the international handbike scene, inspiring people with disabilities to follow their dreams. At the same time the team will improve the handbike equipment, by sharing their knowledge and experience and developing the equipment together with Wolturnus. Furthermore, the team’s mission is to win handcycling races with a real team spirit, fair play and positive energy.

SPORTS AT WORLD-CLASS LEVEL: WOLTURNUS PRO HANDCYCLING

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The Wolturnus Racebike 2017 Edition is the brand new, improved version of the Wolturnus Racebike and has been developed together with the Wolturnus Pro Handcycling Team.

**Specifications**
- Customized handbike
- Recumbent position
- Aerodynamic design with low point of gravity for minimum wind resistance and max. speed
- Fully-welded anodized frame
- Corrosion resistant, impact resistant and scratch resistant
- Designed in accordance with UCI regulations
- Weight from 9 kg

The Racebike 2017 Edition is the brand new, advanced version of the Wolturnus Racebike. With a starting weight of 9 kg (time trial version), this custom-made handbike breaks all weight records.

Just as the original Racebike model, the Racebike 2017 Edition combines low weight and stability with perfect tuning and aerodynamic design. The design focuses on optimal rigidity between the crank and back. This ensures that all your strength is transferred into speed. However, the 2017 Edition has even more to offer: it is 400g lighter than previous models, the frame is in general 10% stiffer and the frame tubes are slimmer and lighter. The overall design has been optimized to improve the bike’s aerodynamics even further.

As every single Racebike is fully adapted to its user, the gear shifter and brakes can be positioned individually.

Wolturnus offers the following upgrade options: Di2 electronic shifter, ceramic speed bearing upgrade, SRM Powermeter, Corima wheels.

**Strong and lightweight, for competitive sports**

The Racebike 2017 Edition is the brand new, improved version of the Wolturnus Racebike and has been developed together with the Wolturnus Pro Handcycling Team.
The Racebike K is a customized kneeling position handbike. It is suitable for riders with full upper-body function and designed in accordance with UCI regulations.

**Specifications**

- Customized handbike
- Kneeling position
- Suitable for leg amputees
- For athletes with full upper body function
- Corrosion resistant, impact resistant and scratch resistant
- High stability and low weight
- Individual choice of gears
- Designed in accordance with UCI regulations
- Weight from 10 kg

The Racebike K is a kneeling position handbike for competitive use, particularly suitable for leg amputees and athletes with full upper body function.

The special frame design allows an ideal seating posture and best possible aerodynamics. The frame is made of heat-treated aluminium 7020, resulting in maximum stability and stiffness. However, with a total weight of approximately 10 kg, the frame is at the same time extremely lightweight.

The configuration of the handbike, based on the optimal seating posture, allows the maximum transfer of power from the athlete to the bike, facilitating to climb mountains with minimal effort.

The anodization of the frame leads to a corrosion resistant, impact resistant and scratch resistant surface. Alternatively, the users can choose between a wide range of powder coatings.

As every single Racebike K is fully adapted to its user, the gear shifter and brakes can be positioned individually and there is a large selection of accessories available for the Racebike K.
Adjustable handbike for exercise, recreation and fun

The Antaras is the perfect handbike for athletes who want to exercise once in a while or on a regular basis. The Antaras allows continuous adjustments, according to changing requirements and needs.

With the Wolturnus Antaras, the riders have the possibility to choose a handbike, with a range of adjustable elements. This allows the users to adapt their seating posture continuously.

The Antaras handbike has an adjustable seat depth and back angle as well as an adaptable leg length. Moreover, it can be used with a seated or recumbent position.

The backrest of this handbike is designed ergonomically to give the athletes the necessary support, harnessing all their energy for propulsion. The Antaras is also suitable for users with limited balance.

The 7020 aluminium frame, provides an ideal stiffness-to-weight ratio. The Antaras has a minimum total weight of 14 kg, depending on your choice of equipment and accessories. Additionally, the Antaras handbike is also suitable for heavyweight users.

The anodization of the frame leads to a corrosion resistant, impact resistant and scratch resistant surface. Alternatively, the users can choose between a wide range of powder coatings.

Specifications
- Customized handbike
- Seated or recumbent position
- Adjustable seat depth, leg length and back angle
- Frame construction with optimum stiffness-to-weight ratio
- 27 gears
- Maximum user weight 150 kg
- Weight from 14 kg

Adjustable back
An adjustable back, allows the continuous adaption of the seating posture.

Adjustable seat
Adjustable seat stops allow the modification of the seat depth & height over the floor.

Shifter on frame
As a standard the Antaras is equipped with the shifter, mounted on the frame.
DID YOU KNOW

That our handbikers are Paralympic, National, European & World Champions

Make your dreams come true
Secure and adjustable for growing children

An adjustable handbike for children and young adults, allowing a high degree of flexibility as it is possible to adapt it in line with the needs of the young, growing athletes.

Antaras Junior is a handbike for children and young adults that offers lots of fun, lots of exercise and the freedom to ride along with friends and family. The handbike has an adjustable seat depth and back angle, allowing to continuously adjust the seating position as the user is growing. Additionally, the Antaras Junior is equipped with an adjustable leg length.

Antaras Junior can be used with a seated or recumbent position. As a standard, the Antaras Junior comes with an adjustable strap seat and strap back. The breathable back upholstery is double-layered, and filled with foam. It secures steady ventilation.

The frame is made of 7020 aluminium, resulting in a minimum total weight of 11.5 kg.

The young users have the possibility to choose from a total of four anodization colors as well as eight powder-coating colors. Alternatively, there is the possibility to provide the Antaras Junior in a unique color of individual choice.

Specifications

- Customized handbike
- Seated or recumbent position
- Adjustable seat depth, leg length and back angle
- High stability and low weight
- Ergonomic back with optimal support
- Many colors to choose from
- Weight from 11.5 kg

Adjustable Leg Length

The Antaras Junior footrest construction allows a continuous adjustment of the leg length.

Adjustable Back Angle

A simple mechanism allows the adjustment of the back angle.

Special Colors

Choose between a wide color range, or even order the Antaras Junior in a color free of choice.
Antaras Off-Road is an adjustable leisure handbike, suitable for riders who love a trip off asphalted road, mastering gravel and rough terrain.

The Antaras Off-Road is equipped with sturdy MTB 559 wheels, as well as mountain bike tyres. The combination of the special wheels and tyres, as well as an enhanced ground clearance, allows the athletes to access all different kinds of terrains. It can be used with a seated or recumbent position.

Moreover, the Antaras Off-Road has two powerful brakes and an easy-to-use gear system with 27 gears. It has a special disc and rim braking system, that guarantees maximum control in all conditions.

This handbike has several adjustable features, such as the seat depth, the back angle and the leg length. This allows the continuous adaption of the seating posture.

The 7020 aluminium frame, provides the ideal stiffness-to-weight ratio. The Antaras Off-Road has a minimum total weight of 14 kg, depending on the choice of equipment and accessories.

**Specifications**

- MTB 559 wheels
- Tyres suitable for all terrains
- Easy-to-use gear system
- Adjustable seat depth, back angle and leg length
- Powerful disc and rim braking system
- Seated or recumbent position
- Frame construction with optimal stiffness-to-weight ratio
- Weight from 14 kg
Make your dream handbike come true

with accessories that suit you!

Bumper

Neck support

Safety belt

Bottle cage in carbon fiber

Seat and back cushion

Mirror

Wireless computer or computer with cadence sensor

Chain guard in carbon fiber

Carbon seat plate

Alu stop plates on handles w. power plates

Electronic gear shifter

Cycling clothes with logo

Handmade & customized
down to the last millimeter

There is a vast number of measurements, which have to be defined during the fitting process. However, Wolturnus handbikes have hardly any pre-configured measures, as each Wolturnus handbike is a customized handbike. The riders' body measurements and individual requirements are decisive!
Getting fitted for a Wolturnus handbike

All our handbikes are custom-built and therefore it is very important, that the fitting of the handbike is executed by experienced consultants. We are able to deliver your new Wolturnus handbike only 5 weeks after the start of the production.

Are you wondering how YOU can get a perfect fit? Then it is a good idea to bring it with you to the fitting with your consultant. During the fitting, all important measurements for your new handbike will be determined. No matter which of the Wolturnus handbike models you are interested in, the most important measurements are: the seat width, the length and shape of the backrest, the leg length as well as the crank length and width.

Before the fitting
To prepare for the fitting, your consultant needs to know:
- Your weight, height and handicap
- Your intention with the new handbike (leisure vs. competitive sports)
- Your need for high performance
- The expected seating posture
- Your daily use of the handbike

The fitting
Do you already have a handbike? Then it is a good idea to bring it with you to the fitting with your consultant.

If you decide to come to Denmark to get measured up for your Wolturnus handbike:

DAY 1: One of our consultants will conduct the measurement and advise you regarding the choice of equipment and accessories, according to the intended use of your handbike. Afterwards, we will weld the frame of the new handbike.

DAY 2: On the second day of your stay, you will be able to try the newly welded frame and hereafter the expected seating posture.

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 extensive 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 handbikes are handmade in Denmark. Because we produce them ourselves, we have the unique opportunity to custom-build special solutions for individual customers, precisely adapted to meet their needs and wishes.

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

The geometry of a handbike is key to best performance. Based on your body shape and posture, we design a frame that minimises rolling resistance and maximizes stability. Based on your body shape and weight, we specify the dimensions of the frame tubes. It doesn’t matter if you weigh 70 kg or 100 kg - we make sure to optimize the handbike geometry according to your needs. Mounted accessories are carefully considered because any increase in weight influences the way the handbike handles. We are able to provide you with a fully welded handbike that is precisely aligned. Finally, the frame is hardened by a process of precisely calculated temperature changes that restore maximum strength to every single microgram of aluminium.

A design team with up to 25 years of experience in working with bikes

Corrosion-resistant. Impact-resistant. Scratch-resistant. Anodizing enables integral coloring, it increases resistance and hardness on 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 (Diamond: 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 colored, durable surface that is resistant to dents and impacts.

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