

# HANDBIKES & SPORTS WHEELCHAIRS

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**WOLTURNUS**

# SPORT



**BASKET &  
HANDBALL**



**RUGBY ATTACK  
& DEFENCE**



**TENNIS**



**FENCING**



**E-HOCKEY**



**AMASIS**



**TEAM TVILLING  
EDITION**

# Basket & Handball

- ✓ Available with adjustable seat, rear axle and footrest
- ✓ Customised to suit your position on court
- ✓ Designed in accordance with international regulations
- ✓ Extremely agile and easy to accelerate
- ✓ Corrosion and scratch resistant powder-coated frame
- ✓ High stability and low weight

## 1 CUSTOMISED

Customised basketball wheelchair for experienced users. Comes as fully welded or with multiple adjustable features.

## 2 REAR AXLE

Choose between fixed and adjustable rear axle.

## 3 ANTI-TIP

Single or double anti-tip device for maximum stability on court.



## Strong, light and extremely agile

The Wolturnus Basket & Handball wheelchair is a first-class sports wheelchair. It's strong, robust, light, and easy to manoeuvre at the same time and designed in accordance with international regulations.

The Wolturnus basketball and Handball wheelchair has been optimised in partnership with international players from German and Dutch clubs.

The frame is made of tempered 7020 aluminium, the strongest aluminium alloy that can be welded. The result is a first-class sports wheelchair with superior stability and low weight. It ensures that you can accelerate and switch directions faster than opponents.

The frame's geometry is adapted to suit your size, strength and position on court. The chair is available as a fully welded customised version as well as a model with adjustable features. The adjustable features make it easy to adjust seat width, seat depth, back height, footrest height and sideguard height for a customised optimal sitting position.

The frame is powder-coated, which makes the surface resistant to scratching, flaking, and corrosion and very easy to maintain.



Wolturnus is longstanding Premium Sponsor Partner of the German Bundesliga team RBB Munich Iguanas.

# Rugby Attack & Defence

- ✓ Customised to suit individual needs and playing position
- ✓ Fully-welded frame in raw, heat-treated, lightweight aluminium 7020 T6
- ✓ Extremely robust, stable and durable
- ✓ Designed in accordance with international regulations
- ✓ Extremely easy to manoeuvre and accelerate

## 1 RUGBY ATTACK

Reinforced side bumpers to withstand hard tackles.

## 2 RUGBY DEFENCE

The extended front bumper is designed to stand your ground and block your opponent's wheelchair.

## 3 ALUMINIUM 7020 T6

The raw frame of heat-treated 7020 aluminium has the best strength-to-weight ratio on the market.

## 4 ANTI-TIP

Fully welded anti-tip supports for maximum stability on the court.



▲ Rugby Defence



## High stability and easy manoeuvring

The Rugby Attack and the Rugby Defence are specialized rugby wheelchairs. They have been optimized in partnership with international top players from Denmark, Holland and Germany.

The raw frame of heat-treated 7020 aluminium has the best strength-to-weight ratio on the market. It transfers 100% of the player's strength and capacity to the court.

The Woltornus rugby wheelchairs are fast and stable. They make it easy to accelerate and switch directions.

The fully welded frames are extremely strong and able to withstand repeated and hard tackling, while the strong anti-tippers secure safe manoeuvring in the heat of the moment.

Both models are customised to suit the individual player and the geometry of the frame is adapted to suit your strength, size and playing position.

▲ Rugby Attack



Nina Wortmann from Germany uses both a Woltornus Rugby Wheelchair and a Merlin foldable wheelchair.

# Tennis

- ✓ Customised
- ✓ Two different designs: 3 or 4 wheels
- ✓ Extremely easy to manoeuvre and accelerate
- ✓ Fixed or adjustable rear axle
- ✓ High stability and low weight

**1 ANTI-TIP**  
Choose between fully welded single centered or double anti-tip.

**2 FRONT WHEELS**  
The Wolturnus tennis chair is available with Spinerger SLX front wheels with extra stable carbon spokes.

**3 ALUMINIUM SIDEGUARDS**  
Welded aluminium sideguards to reduce overall weight.

**4 KNEE SUPPORT**  
The knee support can be designed according to your individual needs and requirements.



▲ Tennis wheelchair with four wheels, fully welded rear axle, welded double anti-tip, and angle-adjustable knee support.



## Stable, light and agile

The Wolturnus Tennis is a highly specialised, customised sports wheelchair. It's light weight, easy to manoeuvre and fast accelerating. This ensures, you can accelerate and switch directions faster than your opponents.

The frame's geometry is adapted to suit your size, weight, strength and abilities. Moreover, Wolturnus also takes the various court surfaces into consideration when building the individual tennis wheelchair.

The tennis wheelchair is designed with a narrow front end that makes it easier to swing your tennis racket. It comes with big tubes for extra stiffness, which allows you to turn faster. You can also choose between three or four wheels and fully welded or adjustable rear axle.

With the sponsorship of Dutch Ruben Spaargaren, we have direct contact with a highly talented player. His feedback helps us to constantly improve and fine-tune the Wolturnus Tennis Wheelchairs.



▲ Tennis wheelchair with four wheels, fully welded rear axle, welded double anti-tip, and angle-adjustable knee support.



Wolturnus is sponsor of the Dutch tennis talent Ruben Spaargaren, who plays in a customised Wolturnus Tennis Wheelchair.

# Fencing

- ✔ Customized fencing wheelchair
- ✔ Selectable wheel position for optimal stability
- ✔ Robust sideguard and handlebar
- ✔ Designed in accordance with international fencing rules
- ✔ Seat plate available in aluminium and carbon
- ✔ Rigid and strong lightweight frame
- ✔ Fixed back

## 1 SIDEGUARDS

No sideguard on the preferred fencing-side. The sideguard on the other side has rounded edges for optimal comfort.

## 2 SEAT

The seat plate is available in aluminium and carbon. Both materials are light and resilient.

## 3 HANDLEBAR

Special frame construction with a solid handlebar for a firm hold during competition.



## Unique, light and solid

The Fencing wheelchair is a solid, customised rigid frame wheelchair built with special design features to meet the requirements in fencing.

This unique sports wheelchair is built on a classic Wolturnus rigid frame. The wheelchair is open on one side to make room for fencing, which is often done sideways.

The other side is built with a stable and easily accessible handlebar, which is required to ensure a stable seating position for the athlete.

The Fencing wheelchair is built from light but extremely solid materials and is always customised to suit the individual needs and requirements of the athlete.



Delphine Bernard from France in her customised Wolturnus Fencing Wheelchair at the 2016 Paralympic Games in Rio de Janeiro.

# E-hockey

- ✓ Compact power wheelchair for hockey
- ✓ Customised
- ✓ Up to 30 kg lighter than competing products
- ✓ Top speed 15 km/h
- ✓ Ergonomic seat and low point of gravity



- 1 ERGONOMIC SEAT**  
*The ergonomic seat and low point of gravity ensures a good seating posture.*
- 2 EASY TO CONTROL**  
*The E-hockey is very easy to control and has a top speed of 15 km/h.*
- 3 STEEL CHASSIS**  
*Very robust steel chassis ensures stable on-court-action.*
- 4 WHEEL PROTECTORS**  
*Available with wheel protectors for preventing damage from collision.*



## Fast and robust

The Woltornus E-hockey is a customised power wheelchair for hockey. It's strong, robust and up to 30 kg lighter than other models on the market.

The E-hockey wheelchair is a very robust wheelchair. With a solid steel chassis and upper section of heat-treated lightweight aluminium 7020 T6, it can easily withstand all on-court challenges.

The wheelchair has an unrivalled top speed of 15 km/h.

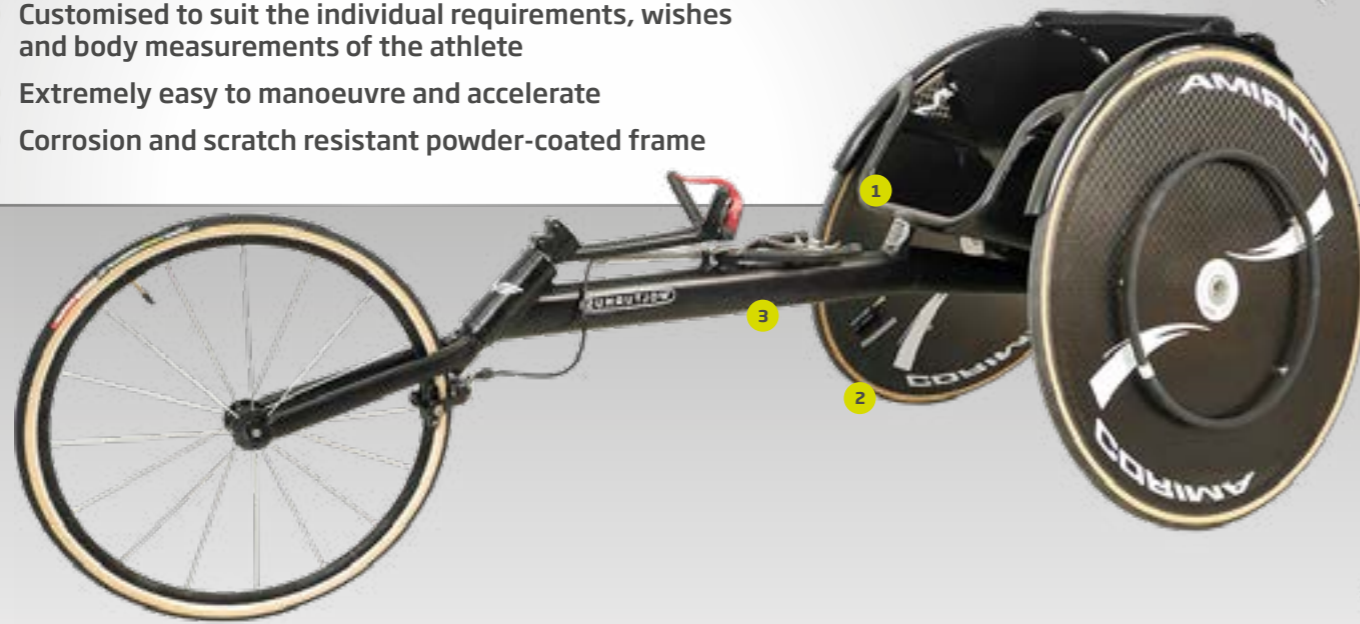
The seating posture is critical for a good match performance. The E-hockey has an ergonomic seat and a low point of gravity. This ensures stable, safe and fast action during the heat of the game.

The E-hockey is designed and produced in Denmark. It is the preferred wheelchair of elite players in many European countries.



# Amasis

- ✔ Extra strong frame tubing ensures a stiff frame and higher speed
- ✔ Developed in cooperation with world-class athletes
- ✔ Stiff and sturdy frame in aluminium 7020
- ✔ Customised to suit the individual requirements, wishes and body measurements of the athlete
- ✔ Extremely easy to manoeuvre and accelerate
- ✔ Corrosion and scratch resistant powder-coated frame



## 1 SEATING CAGE

Customised aluminium seating cage to ensure the best seating posture.



## 2 KNEELING POSITION

Choose between kneeling and seating position.



## 3 SPECIAL SOLUTIONS

We can design the Amasis down to the last millimeter according to your wishes and needs.



Photo: Christie Brouwer

## Light, fast and robust

The Amasis is the ultimate in maximum transfer of athletic energy. Since its release in 2004, the Amasis racing wheelchair has broken world records and won many victories in athletics and long-distance races at the Paralympic Games.

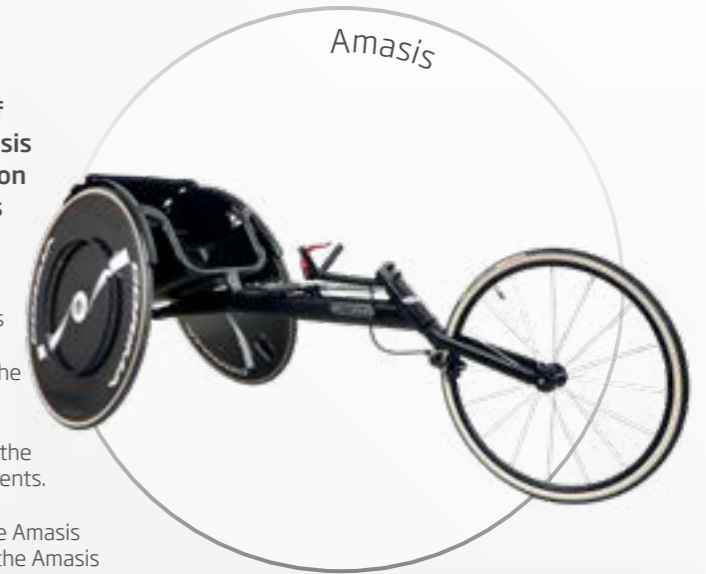
The Amasis frame is made of tempered 7020 lightweight aluminium. With its extra strong frame tubing, the Amasis results in a racing wheelchair that is rigid and robust. Thanks to the aerodynamic frame design and optimal driving behaviour, all the athlete's power is converted into energy and speed.

Each Amasis is customised down to the last millimetre to suit the individual athlete's requirements, wishes and body measurements.

Depending on the preferred seating posture, we can equip the Amasis with a seating cage. No matter if the athlete wants to propel the Amasis from a seated or a kneeling position - we adapt the design individually.

For us, it is very important to continuously develop our products, to draw on the experience and knowledge of professional athletes.

Due to the cooperation with Jetze Plat, we are specialized in building the Amasis for Triathlon usage by adapting the design to facilitate a fast transfer from the handbike into the racing wheelchair.



The Dutch para-triathlete Jetze Plat crossed the finish line first in his Amasis and won the gold medal at the 2016 Paralympic Games in Rio de Janeiro. Photo: Bert Willems





*The Dutch para-triathlete Jetze Plat after winning gold in his Amasis at the 2016 Paralympic Games in Rio de Janeiro. Photo: Bert Willems*

# Team Twin Edition

SPORT



- ✓ Extremely high stability and low weight
- ✓ Strong and robust with fixed back and rear axle
- ✓ Adjustable seat and back upholstery
- ✓ Available as customised split frame model for easy transportation
- ✓ User weight max. 120 kg

◀ Team Twin Edition  
Available in three sizes  
for all age groups.



## Run together

Team Twin Edition is a racing wheelchair that was developed especially for twin brothers Steen and Peder Mondrup. This robust and light wheelchair is powered by the mobile partner and ensures both a good, healthful seating position and high running comfort.

The Team Twin Edition is an enhanced version of the Wolturnus Amasis racing wheelchair that has been used at the Paralympic Games. Athletes have set new world records in their disciplines in the Amasis and the racing wheelchair is renowned for its light weight and unsurpassed strength and speed - features that have been retained in the Team Twin Edition model.

The light and robust Team Twin Edition wheelchair is propelled by the mobile partner and is available in three sizes and many beautiful colours for both children and adults.

The Team Twin Edition wheelchair features include a height-adjustable push bar, foot plate, neck support and Team Twin spoke protectors.

The Team Twin racing wheelchair is also available as a customised split-frame model that can be separated for easy transportation.



### 1 ANGLE-ADJUSTABLE FOOT PLATE

Adjust the foot plate to achieve a variety of foot and leg positions.

### 2 SPOKE PROTECTORS

Team Twin Edition spoke protectors with carbon look.

### 3 PUSH HANDLES

Push handles, partner-operated brakes and adjustable neck support.

Steen and Peder Mondrup achieved national recognition in 2014 as they took part in the Copenhagen Marathon as Team Twin under the slogan "We run together". Afterwards, the twins completed an Ironman with Peder sitting in the very first Team Twin Edition wheelchair. Since, the two have created an extensive network of running teams from all over the world. Photo: Jakob Kjeldsen

SPECIFICATIONS	TEAM TWIN EDITION
MAX USER WEIGHT	120 KG
PRODUCT WEIGHT	FROM 10 KG
SEAT WIDTH	38 / 40 / 42 CM
SEAT DEPTH	33 - 40 CM
SEAT HEIGHT FRONT	48 CM
SEAT HEIGHT REAR	42 CM
BACK HEIGHT	55 CM
SUITABLE FOR KIDS	YES
ISO CRASH TESTED	NO

# HANDBIKES



RACEBIKE



FATBIKE



RACEBIKE K



BUZZARD



ANTARAS



# Racebike

- ✓ Aerodynamic design with low point of gravity
- ✓ Fully-welded anodised frame: corrosion, impact, and scratch resistant
- ✓ Designed in accordance with UCI regulations
- ✓ Powder-coated, heat-treated 7020 aluminium frame
- ✓ Recumbent position
- ✓ Weight from 9 kg



**1 CARBON SEAT & BACK**

Equip your 2017 Edition with a custom-made carbon seat and back, to facilitate weight reduction.



**2 STIFFER HEAD TUBE**

The Racebike 2017 Edition has a stiffer front frame and head tube construction.



**3 CORIMA WHEELS**

Corima® Carbon wheels are available for your Racebike.



## Strong and lightweight for competitive use

The Woltornus Racebike has been developed with the Woltornus Pro Handcycling Team - it's a handbike made for champions.

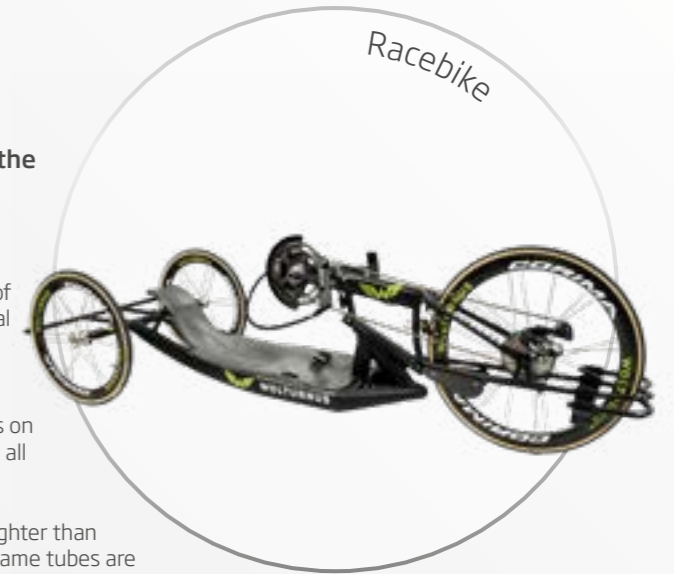
The Racebike 2017 Edition is the brand new, advanced version of the Woltornus Racebike. With a starting weight of 9 kg (time trial version), this custom-made handbike breaks all weight records.

The Racebike combines low weight and high stability with perfect tuning and an 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.

Woltornus offers the following upgrade options: Di2 electronic shifter, ceramic speed bearing upgrade, SRM Powermeter, Corima wheels. In addition, a 250W electrical motor can be equipped for support.



# Fatbike

- ✓ 250 W motor with up to 60 km range
- ✓ 20 cm ground clearance
- ✓ Shimano XT gear system
- ✓ Weight from approx. 18 kg (without motor)
- ✓ Max. user weight 140 kg
- ✓ Off-road handbike

### 1 DISC BRAKES

Powerful disc brakes for the front wheels and the rear wheels.

### 2 WING BACK ILSA

The Wing Back ILSA helps the user to achieve symmetry and stable seating comfort.

### 3 EXTRA WIDE TIRES

Extra wide tires for ultimate offroad action on all kind of grounds.



## Strong and adjustable for unlimited outdoor action

Ultimate outdoor action, regardless of weather and terrain.

The Fatbike gives handcyclists entirely new opportunities, independent of challenging weather and ground conditions. This handbike, featuring oversize tires, is ideal for riding on unstable terrain like snow, gravel, sand and mud.

The Fatbike is an off-road handbike, with an adjustable seat and back upholstery as well as an adjustable back angle, which makes it possible to adapt it to the individual user. As a special feature, the Wolturnus Fatbike is equipped with the Wing Back ILSA - a patented unique multi-adjustable back system, to give maximal upper body support during off-road riding.

The Fatbike has a ground clearance of 20 cm and comes with electrical support as a standard. The 250 W motor has a range of up to 60 km and adds around 8 kg of extra weight to the Fatbike. It is made of 7020 aluminium, which makes the frame extremely rigid.

The 26" front wheel, 20" rear wheels, powerful disc brakes for the front and rear wheels as well as an 11-speed gear system, make the Fatbike a great sports equipment for users at all experience levels.



# Racebike K

- ✓ High stability and low weight
- ✓ Corrosion and scratch resistant powder-coated frame
- ✓ For athletes with full upper body function
- ✓ Designed in accordance with UCI regulations
- ✓ Climb inclines with minimal effort
- ✓ Weight from 10 kg



**1 FRAME DESIGN**  
The special frame design allows an ideal seating position and best possible aerodynamics.



**2 POWER PLATES**  
Alu stop plates on handles with power plates, securing an ideal grip.



**3 POSITION**  
The position is adapted according to each individual athlete's measurements and requirements.

## Fast and stable for a kneeling position

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.

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.

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

The users can choose between a wide range of powder-coatings for the frame, which makes the surface resistant to scratching, flaking, and corrosion and very easy to maintain.

As every 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. The Racebike K can also be equipped with a 250W electrical motor for support.



Wolturnus has for more than 10 years been sponsoring Jetze Plat, who is one of the world's best handbike riders. The Dutch super-athlete has won Paralympic gold and numerous European and World Championships and is regularly breaking world records in his Wolturnus handbikes. Photo: Bert Willems

# BUZZard

- ✓ Heat-treated frame and fork
- ✓ Touring or sports backrest
- ✓ Adjustable crank position
- ✓ Powder-coated aluminium 7020
- ✓ Adjustable backrest
- ✓ One size



**1 ADJUSTABLE BACKREST**  
Comes with angle adjustable backrest which also enables seat depth adjustments.

**2 ADJUSTABLE LEG LENGTH**  
The footrest can be adjusted to fit the preferred leg length.

**3 ADJUSTABLE CRANK POSITION**  
The crank position can be adjusted horizontally forwards and backwards.



## Simple and easy manoeuvring for the first experience

This handbike is the perfect first bike, to experience the joy of handcycling.

The BUZZard is available in one size and it comes with an adjustable backrest and an adjustable crank position.

You can choose between a touring backrest with Bodypoint strapping or a sports backrest, which reminds of the backrest of the Antaras.

As a standard, the BUZZard is equipped with a parking brake. The brake lever and shifter are mounted on the handle.

The frame is made of powder coated, heat-treated aluminium 7020.



**4 LOW GEARING**  
The BUZZard handbike has a wide range of gear ratios, starting with a very low gear ratio. This makes the bike well suited for all inclines.



SPECIFICATIONS		BUZZARD
	MAX USER WEIGHT	120 KG
	PRODUCT WEIGHT	FROM 15 KG
	SEAT WIDTH	37 CM
	SEAT DEPTH	35 - 53 CM
	SEAT HEIGHT FRONT	14 CM
	SEAT HEIGHT REAR	13 CM
	WHEEL SIZE	26"
	SUITABLE FOR KIDS	FROM 12 YEARS

# Antaras

- ✓ Adjustable seat depth, leg length and back angle
- ✓ High stability and low weight
- ✓ Seated or recumbent position
- ✓ Frame construction with optimum stiffness-to-weight ratio
- ✓ Weight from 14 kg



**1 ADJUSTABLE SEAT**  
Adjustable seat straps allow modifying seat depth and height over floor.

**2 ADJUSTABLE LEG LENGTH**  
The footrest can be adjusted to fit the preferred leg length.

**3 ADJUSTABLE BACK**  
Adjustable back allowing continuous adaption of the seating posture.



## Adjustable and strong for exercise, recreation and fun

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

The Wolturnus Antaras is a handbike with a wide 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 a recumbent position.

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

The aluminium 7020 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. The Antaras can be equipped with a 250W electrical motor for support. Additionally, the Antaras handbike is also suitable for heavyweight users.

The users can choose between a wide range of powder-coatings for the frame, which makes the surface resistant to scratching, flaking, and corrosion and very easy to maintain.



▲ **Antaras Junior**  
Adjustable handbike for children and teenagers that can meet the changing needs of young athletes. Weight from 11.5 kg.



Photo: www.th-10.de





WOLTURNUS

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