

# Productguide

Tricycles

Scooter bike

Wheelchair bikes

Tandems

Side-by-side tandems

Transport bike

Low step through bikes

Walking support



**vanraam**<sup>®</sup>  
Let's all cycle



Management Van Raam, from left to right: Jan-willem Boezel, Marjolein Boezel, Ronald Ruesink

# Van Raam

Van Raam produces unique special-needs bicycles. The specialities of Van Raam include tricycles, scooter bike, wheelchair bikes, tandems, side-by-side tandems, transport bikes, low step through bikes or comfort bikes and the walking aid. The Van Raam bikes are also available as electric bikes. We use options and customisation, if required, to produce each Van Raam bicycle uniquely in the Netherlands. Van Raam bicycles are sold by our dealers and are available in almost all European countries and North America.

You can get updated information at [www.vanraam.com](http://www.vanraam.com), videos on YouTube and the latest updates on Facebook, Twitter, Instagram, Pinterest and LinkedIn.



**The family company Van Raam has been making Dutch quality bikes for more than 110 years.**

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Note: Images of bicycles shown in the pictures may display options which are not present in the standard design. Minor modifications can be made to the bicycle even after the production of this folder. Press-work and printing errors reserved. Always read the user's manual thoroughly before using our cycles.



## Tricycles

People that are no longer able to use a regular two wheeled bicycle are looking for a good and safe alternative. The Van Raam tricycle is especially designed for people who want to have extra support and stability while cycling. Using a wide variety of options, modifications, and customisation possibilities, every tricycle is manufactured uniquely. All tricycles, except for the husky, are also available as electric bikes.

Van Raam has several types of tricycles for both children and adults:

- Traditional tricycles with one front wheel, two rear wheels, and a high sitting position;
- A low step through tricycle;
- Comfortable tricycles with a seat, low step through, and a lower sitting position;
- A compact electric mobility scooter bike that can also be used without pedalling;
- And tricycles with two front wheels and one rear wheel.

# Tricycles

## Standard specifications of the tricycles

The Van Raam tricycles have the following specifications by default:

- Plastic chain guards
- Environmentally friendly powder-coating
- A parking brake
- A steering limiter
- Five years of warranty on the frame
- Lighting\*
- A bell
- A lock\*
- A differential and an adjustable stem\*

\* Exceptions: The husky has no lighting, lock, and differential. Both the mini and husky do not have an adjustable stem.

## Features of the tricycles

The Van Raam tricycles have the following features:

- Smooth-running
- Stable design
- Easily manoeuvrable
- Modern design
- Trendy colours
- Various options available

Various options are available for all tricycles. These include electric pedal assist, footrests, special cranks, different brakes, or different steering adaptations. An overview of these options can be found under "options and electric pedal assist".

## The traditional tricycle

The traditional tricycle is a bike with one front wheel and two rear wheels on which the seat is placed above the bottom bracket. You pedal using a downwards movement and sit relatively high on the cycle.

As the frame of a tricycle is not inclined at the bend, it may be slightly more difficult to get used to riding this type of bicycle. Because these bicycles have one front wheel they can be manoeuvred more easily, this is also because these bikes are equipped with a differential. Van Raam has different sizes of this type of tricycle.



**The Midi tricycle is suitable for children around 8 or older, or for shorter adults.**



**The Husky tricycle is suitable for children aged 2 and above.**



**The Maxi tricycle is suitable for adults who have a difficulty keeping their balance.**



**The Mini tricycle is suitable for children aged 4 and above.**



**The Maxi Comfort is a low step through tricycle for adults.**



**Parking brake**



**Adjustable stem**



**Differential**



# Husky

Tricycle for young children



## Husky

Tricycle for young children

The Husky tricycle is specially designed for young children, who have difficulties with stability. This cheerful, light-running tricycle has a specially designed bottom bracket, making it possible for a child to pedal downwards. The crank normally has integrated crank-shorteners. It is not possible to use an electric motor for pedal assist on the Husky.

### Suitable for:

Children aged 2 years and above.

### Technical specifications

Inside leg length	35 - 47 cm
Frame height	23 cm
Step through height	12 cm
Cycle weight	+/- 11 kg
Cycle length	98 cm
Cycle width	59 cm



Push bar, back fixation and belt

Visit [www.vanraam.com](http://www.vanraam.com) for all the options



## Mini

Tricycle for children

The Mini tricycle is a modern tricycle designed for children. It is a smooth-running bike, which can be manufactured in beautiful colours. The Mini is available with various options, such as a handle bar, back and foot fixation and an electric motor for pedal assist.

### Suitable for:

Children aged 4 years and above.



### Technical specifications

Inside leg length	47 - 59 cm
Frame height	30 cm
Step through height	20 cm
Cycle weight	+/- 21 kg
Cycle length	136 cm
Cycle width	60 cm

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for all the options



Push bar



Back fixation  
and belt



## Midi

Tricycle

The Midi is a trendy tricycle designed for younger users or shorter people. It is a smooth-running three-wheeler with a solid finish and beautiful design. The Midi is available with various options, such as a stationary crank, foot fixation and an electric motor for pedal assist.

### Technical specifications

Inside leg length	66 - 80 cm
Frame height	41 cm
Step through height	25 cm
Cycle weight	+/- 27 kg
Cycle length	168 cm
Cycle width	75 cm

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### Suitable for:

The Midi tricycle is suitable for children aged about 8 years and above or for shorter adults.



Parking brake



Carrying platform with  
basket and push bar



# Maxi

Tricycle for adults



## Maxi

Tricycle for adults

The trendy Maxi is designed for stability and hence creates a feeling of security while cycling. You can easily get on and off the bike and ride with this smooth-running tricycle. The Maxi is available with various options, such as a walking stick holder, a shopping basket, foot fixation and an electric motor for pedal assist.

### Suitable for:

Adults.

### Technical specifications

Inside leg length	80 - 95 cm
Frame height	53 cm
Step through height	28 cm
Cycle weight	+/- 29 kg
Cycle length	180 cm
Cycle width	75 cm



Basket



Rear light

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## Maxi Comfort

Low step through tricycle

Van Raam also has an adapted version of the traditional tricycle which has a low and wide step through and an easier sitting position. Instead of above the pedals, you sit slightly behind them. This gives you a lower sitting position so you can always put both feet flat on the ground and have more space for your knee movement. With the Maxi Comfort you do not need to raise your legs as high to reach the pedals and you can place the seat under you while standing still. With a lower centre of gravity this tricycle feels more comfortable than the conventional ones. The lower sitting position puts less stress on your back, shoulders, neck, and wrists. The Maxi Comfort is available with a lower, standard, or extra high frame. Many people find this bike easier to ride than a traditional tricycle. There are many options available such as the gear lever, backrest, footrests, and the option for electric pedal assist.



### Suitable for:

The Maxi Comfort is suitable for adults who have balancing problems, a difficulty with getting on and off a bike and need to ride in an ergonomic cycling position.

### Technical specifications

Inside leg length	67 - 82 cm or 76 - 91 cm or 85 - 100 cm
Frame height	42 cm or 51 cm or 60 cm
Step through height	23 cm
Cycle weight	+/- 32 kg
Cycle length	194 cm
Cycle width	75 cm



Low step through





## Tricycle with a seat

There also is a tricycle with a low step through, a seat with back support and a forward pedalling position designed for people who want to cycle in a comfortable and stable manner. You sit lower on the bike which makes for a lower centre of gravity. This will boost your confidence by giving you a more safe feeling.

Almost everyone can ride on this bike without having to learn it first. The comfortable seat supports your back and gives you adequate space to sit. This new cycling position lays hardly any stress on your back, neck, shoulders, and wrists. As you are sitting almost between the rear two wheels, you also have fewer problems anticipating the width of the bike. Apart from this adult version, there is also a Junior version of this bike. There is also a sports model which is a recumbent bike. Finally there is also the Easy Go, a compact electric mobility scooter.



## Easy Rider

Comfortable tricycle with seating for adults

The Easy Rider tricycle for adults is clearly different from other tricycles. It has a unique frame with low step through and a stable lower sitting position. The low centre of gravity, seating with a back support and steering in front give the rider a safe and secure feeling. The seat height and seat angle are adjustable. The forward pedaling motion and the frame suspension ensure a perfectly comfortable ride.

The special cycling position lays hardly any burden on the back, neck, shoulders and wrists. Virtually anyone can ride this cycle without having to get used to it. The Easy Rider is available with various options, such as, single hand brakes, a walker holder, foot fixation and an electric motor for pedal assist.



Seat



Suspension



Divisible frame

### Suitable for:

Adults who want to ride comfortably and without fear on a beautifully designed tricycle.

### Technical specifications

Inside leg length	69 - 95 cm
Step through height	38 cm
Cycle weight	+/- 43 kg
Cycle length	210 cm
Cycle width	75 cm



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## Easy Rider Junior

Comfortable tricycle with seating for children

The Easy Rider Junior is specially designed for children or shorter adults, who have difficulties with stability. This sturdy and smooth tricycle with a low step through has a seat with backrest and therefore, gives more support than a cycle with a regular saddle. The frame has suspension for plenty of comfort.

The comfortable forward pedalling position makes the cycle sporty. The Easy Rider Junior is available with various options, such as a direction indicator set, arm rests, foot fixation and an electric motor for pedal assist.

### Suitable for:

Children aged about 4 years or older, or shorter adults.

### Technical specifications

Inside leg length	47 - 73 cm
Step through height	35 cm
Cycle weight	+/- 34 kg
Cycle length	175 cm
Cycle width	75 cm

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for all the options



Lower leg fixation and foot fixation



## Easy Sport

Sporty, comfortable recumbent trike with seating

The Easy Sport is an ideal tricycle for sports-minded people who want to ride comfortably. This recumbent trike can be used both for sports and recreation. The ergonomic seat, with adjustable seat height and seat angle, ensures optimal support. The frame suspension guarantees extra comfort. The cycling position with the handlebar below places hardly any burden on the back, neck, shoulders and wrists. With the adjustable length and having various options, this recumbent tricycle can be used to suit everyone's needs.

### Technical specifications

Inside leg length	65 - 105 cm
Step through height	52 cm
Cycle weight	+/- 31 kg
Cycle length	195 - 225 cm
Cycle width	80 cm
Seat angle	35 - 45 degrees

### Suitable for:

Adults, who have difficulty with their balance, are sports-minded and want to ride comfortably on a modern cycle.



Underseat steering



Suspension



Plateau



## Easy Go

Compact electric mobility scooter bike

The compact electric mobility scooter bike is designed for people with stability problems or variable energy levels. There are three options available on this tricycle:

- You can ride the bike by just pedalling.
- You can ride using electric support while pedalling
- You can use 100% of the electrically powered driving.

When you fold down the footrest you do not pedal anymore and you can use the bike as a mobility scooter. This can be at various speed levels. You can easily decide which type of support you want during the bike ride.

This bike is quite compact and manoeuvrable which makes it suitable for shopping. The adjustable double suspension gives you a stable and comfortable riding experience. There is no driving license or any other driving certificate required to ride the Easy Go. However, you need to make sure your bike is insured.\*

\*This may be different in your country, always consult local laws.

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### Suitable for:

Adults with a variable energy levels, who want to cycle, but would also like to have the possibility of completely switching to an electric scooter if they cannot cycle (any more).

### Technical specifications

Inside leg length	75 - 90 cm
Step through height	28,5 cm
Cycle weight	+/- 64 kg
Cycle length	166 cm
Cycle width	71,5 cm



Throttle



Footrest



Adjustable suspension



## Tricycle

With two wheels in front and one rear wheel

For people, who find it hard to anticipate the width of a tricycle, there is a tricycle with two front-wheels and one rear wheel. This design helps the tricycle rider to always be in a position to correctly judge whether he can pass through or along some place. This type of cycle is also called a T-bike or a trike. The saddle of this type of tricycle is placed above the pedals. You pedal downwards and sit relatively high on the bike. Two wheels in front are somewhat heavier to control and have a greater turning radius than one wheel in front.



## Viktoria

Tricycle with two wheels in front and one rear wheel

Van Raam's Viktoria tricycle is specially designed for people who have a difficulty estimating the width of a tricycle, hence the two wheels on the front. The Viktoria tricycle also has an extremely low and wide step through. Of course, this modern designed tricycle is available with various options. With the help of an electrical motor for pedal assist, cycling will be even easier on this modern designed tricycle.

### Suitable for:

Young people and short adults, who have balancing problems and have difficulty with anticipating the cycle width.

### Technical specifications

Inside leg length	63 - 81 cm
Frame height	41 cm
Step through height	18 cm
Cycle weight	+/- 28 kg
Cycle length	152 cm
Cycle width	78 cm



## Viktor

Tricycle with two wheels in front and one rear wheel

Van Raam's Viktor tricycle is specially designed for people who have difficulty estimating the width of a tricycle, hence the two wheels on the front. The Viktor tricycle also has an extremely low and wide instep. Of course, this modern designed tricycle is available with various options. With the help of an electrical motor for pedal support, cycling will be even easier on this modern designed tricycle. Look at our accessories page for more examples.

### Technical specifications

Inside leg length	80 - 96 cm
Frame height	50 cm
Step through height	16 cm
Cycle weight	+/- 30 kg
Cycle length	173 cm
Cycle width	86 cm



### Suitable for:

The Viktor tricycle is suitable for adults, who have balancing problems and difficulty with anticipating the cycle width.



## Wheelchair bikes

The Van Raam wheelchair bikes are used to enable a wheelchair dependent person to travel on a bike. Van Raam has two models of wheelchair bikes: The Opair wheelchair bike and the VeloPlus wheelchair transport bike.

On the Opair the passenger sits in the seat on the front of the bike. The standard seat can be adjusted in many ways. A custom seat can also be mounted if required. Optionally, the front seat can be detached from the bicycle and used on its own as a wheelchair.

On the VeloPlus the passenger can remain seated in their own wheelchair. Most hand driven wheelchairs can easily be driven and fixed onto the tilted plateau of the bike by one person without transferring the passenger.

The wheelchair bikes have a number of advantages: They can be taken quite close to the destination, there is social contact between the cyclist and the passenger, one is less dependent on third party transportation, and the bikes are an environmentally friendly alternative. The optional pedal assist makes it possible for most people to use the bike and enjoy long distance rides.

### Standard specifications of the wheelchair bikes

The Van Raam wheelchair bikes have the following specifications by default:

- 8 gears
- Hydraulic brakes in front
- V-brakes rear
- Plastic chain guards
- A regular saddle
- Environmentally friendly powder coating
- Parking brake
- Steering limiter
- Five year warranty on the frame
- Automatic battery lights
- adjustable stem
- A lock
- A bell





## OPair

### Wheelchair bike

The OPair is a wheelchair bike on which you can transport a wheelchair user. A seat for the wheelchair user/passenger is affixed to the front of the bike. Positioned on the back of the bicycle, the cyclist has a good view on the road and the passenger. On the detachable frame version, the front part is easy to remove from the cycling component, which enables use as a wheelchair on location. The slightly angled front wheels provide increased driving comfort and stability.

The adjustable seat of the OPair can be set to the passenger's measurements as well as the angle adjustable back rest and expandable side rests. There are also options for side rests, making the bike suitable for both children and small adults. The bike can be altered completely with a variety of options. A personal seat can be affixed to the bike. The optional electric motor provides support while cycling.



Footrest



Divisible frame



Suspension and hydraulic brakes



### Technical specifications

Inside leg length	80 – 95 cm
Frame height	52 cm
Cycle weight	+/- 58 kg
Cycle length	214 cm
Cycle width	76 cm

### Suitable for:

Cycling with children or adults, who cannot cycle on their own due to disability, yet can make an easy transfer.

In addition to the standard features mentioned on page 29, the OPair has the following option as default:

- Two raisable and adjustable foot rests
- Hip seatbelt for passenger
- Arm rests
- Wheel protection



Splitt frame OPair

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## VeloPlus

Wheelchair transport bike

The VeloPlus wheelchair transport bike is designed for transporting people who can remain seated in their own wheelchair by cycle. The passenger is not required to be transferred between the wheelchair and the cycle. The co-rider can be driven onto the plateau of the bike easily without having to be lifted. The tilted ramp makes it easy to roll the wheelchair on to the wheelchair bike and fasten it properly with the wheelchair lock.

The low positioning of the chair on the cycle makes the ride easier and gives a lower centre of gravity. The widely placed and extra steered front-wheels ensure a reduced turning radius and hence, stability. The electric engine may be optionally used for pedal assist during cycling. The VeloPlus is mostly used in institutions or homes for transporting various people.



Hydraulic disk brakes



Wheelchair lock



Wheelchair plateau



### Suitable for:

The VeloPlus wheelchair bike is suitable for almost every manually powered wheelchair up to 74 cm wide. The wheelchair can be placed quickly and easily by one person onto the bike and is therefore, suitable for homes or institutions.

In addition to the standard features mentioned on page 29, the VeloPlus has the following options as default:

- Seat belt
- Wheelchair lock
- Wheel protection
- Extra steered front wheels

### Technical specifications

Inside leg length	80 – 95 cm
Frame height	52 cm
Cycle weight	+/- 64 kg
Cycle length	253 cm
Cycle width	110 cm

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## Tandems

The Van Raam tandems are used to enjoy cycling together. Van Raam has various types of tandems:

- Twinny: A tandem bike with two wheels where two adults can sit behind each other.
- Twinny Plus: A tandem bike with three wheels where two adults can sit behind each other.
- Kivo: a tandem bike with two wheels where a child can sit in front while an adult sits on the back.
- Kivo Plus: a tandem bike with three wheels where a child can sit in front while an adult sits on the back.
- Fun2Go: three-wheeled duobike / side-by-side tandem where two people sit next to each other.
- FunTrain: Trailer that can be connected to a Fun2Go duobike so 4 people can cycle together.

With the low step through or no step through and the various options available, the tandems are widely used by people, who can no longer cycle by themselves anymore. The smooth-running tandems can be adjusted using the (optional) freewheel switch in such a way that you can pedal at speeds independent of each other, with equal speed, or the passenger does not pedal at all. The Twinny tandem is also available with a detachable frame, which facilitates transporting it behind the car using a bike carrier.

### Various options

The Van Raam tandems are also available in electric versions with electric pedal assistance. There are various options possible to make the tandem suitable for any type of use. We produce every tandem uniquely. For example, we can personalise the tandems with front or rear control, as required.



### Standard specifications of tandems

The Van Raam tandems have the following specifications by default:

- 8 gears
- Plastic chain guards
- Environmentally friendly powder-coating
- Parking brake (only three wheel tandems)
- Steering limiter
- Five year warranty on the frame
- Lighting
- A lock
- A bell
- Adjustable stem



# Twinnny

Tandem

It is easy to get on and off the Twinnny tandem. This is owed to the spacious low step through. It is designed with more space between the saddle of the front rider and the handle of the co-rider, thus avoiding the two riders sitting too close to each other. You can decide on your own how to cycle together, so you may pedal independently of each other using the double freewheel.

You can use the optional switchable freewheel to determine whether and how the passenger pedals. Many options are available for this cycle, including a detachable frame. You may even opt for the steering handle to be assembled at the rear. As every bike is produced uniquely, you can get the frame height adjusted in front and at the back as per your requirement.

An electric motor can be used for a comfortable pedal assist to make cycling on this tandem much easier.



Switchable freewheel



Detachable frame



Double transfer kickstand

## Technical specifications

Inside leg length	77 - 89 cm
Standaard Frame height	52 cm (adjustable)
Step through height*	F 37 cm, R 44 cm
Cycle weight	+/- 35 kg
Cycle length	259 cm
Cycle width	66 cm

## Suitable for:

Two adults with no balancing problems and who consider movement and social contact important.



\* F = front  
R = rear



# Twinny Plus

Three-wheel tandem



# Twinny Plus

Three-wheel tandem

The Twinny-Plus is a three-wheel version of the Twinny. It has two rear wheels, these two wheels make it even easier to get on and off the bike, when it is stationary. The Twinny Plus has the same features and options as the Twinny.

### Technical specifications

Inside leg length	77 - 89 cm
Frame height	52 cm (adjustable)
Step through height*	F 38 cm, R 45 cm
Cycle weight	+/- 44 kg
Cycle length	261 cm
Cycle width	75 cm



Rear



Footfixation

\* F = front  
R = rear

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## Kivo

Child-parent tandem



The Kivo is a child-parent tandem with an adult sitting behind and a child sitting in front. The child can get a good view of the environment. The driver sitting behind can always keep a good watch on the child. The Kivo has a low step through and therefore, is easier to use. Normally the Kivo has 8 gears and a freewheel switch. You can use the switchable freewheel to determine whether, and how the passenger pedals. The Kivo also has a variant with two rear wheels. An optional electric motor is possible to install on both the types, which provides comfortable pedal support, this makes cycling on this tandem even easier.

### Suitable for:

Children, who cannot cycle independently and want to participate in a bike ride, together with an attendant.

### Technical specifications

Inside leg length*	F 77 - 89 cm, R 50 - 62 cm (adjustable)
Frame height*	F 52 cm, R 30 cm (adjustable)
Step through height*	F 43 cm, R 36 cm
Cycle weight	+/- 39 kg
Cycle length	244 cm
Cycle width	66 cm

\* F = front  
R = rear



Switchable freewheel



Steering backside

## Kivo Plus

Child-parent tricycle tandem



The Kivo Plus is a child-parent tricycle tandem with an adult sitting behind and a child sitting in front. The child can get a good view of the environment. The driver sitting behind can always keep a good watch on the child. The Kivo Plus has a low step through and therefore, is easier to use. Equipped with two rear wheels instead of one, the Kivo Plus tricycle provides more stability. Because of these two wheels it becomes more easy to get on and off of the bike when its standing still. Normally the Kivo has 8 gears and a freewheel switch.

You can use the switchable freewheel to determine whether and how the child pedals. The Kivo also has a variant with two wheels behind. An optional electric engine is possible to install on all the variants, which gives a comfortable pedal support, this makes cycling on this tandem even easier.

### Suitable for:

Children, who cannot cycle independently and want to participate in a bike ride, together with an attendant.

### Technical specifications

Inside leg length*	F 77 - 89 cm, R 50 - 62 cm (adjustable)
Frame height*	F 52 cm, R 30 cm (adjustable)
Step through height*	F 45 cm, R 36 cm
Cycle weight	+/- 48 kg
Cycle length	246 cm
Cycle width	75 cm

\* F = front  
R = rear



Footfixation

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for all the options

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## Fun2Go

Side-by-side tandem

The Fun2Go is a three-wheel side by side tandem on which both riders sit next to each other. One person is in control of the steering while both can pedal. Both people have a good view and can communicate well with each other because they are sitting next to each other. Both riders can easily hop on without having to step over the frame and the seats can be moved forward and backward. With one front wheel and two rear wheels the Fun2Go is easily manoeuvrable as it can rotate on its own axis. Optionally a freewheel switch is available that lets determine if the passenger can pedal along, their pedals automatically move along, or their pedals can move freely. The Fun2Go is also available with electric pedal assist that lets you cycle under any circumstances.

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for all the options



Basket



Footplate



Adjustable seat with a  
thick 5 cm seatpillow



Rotatable seat



Switchable  
freewheel



A duobike trailer is also available. It is called the FunTrain. Connecting the FunTrain to the Fun2go gives one attendant the possibility to cycle safely with 3 passengers.

### Suitable for:

The Fun2Go is widely used by institutions, homes, and private individuals for people who can no longer participate in traffic independently (anymore).

### Technical specifications

Seat height	61 cm
Step through height	None
Cycle weight	+/- 69 kg
Cycle length	200 cm
Cycle width	113 cm



## FunTrain

Duo bike trailer

The FunTrain is a side by side tandem trailer that automatically brakes and can be placed behind a new or existing Fun2Go duo bike. This way, one attendant can safely ride with three passengers where one passenger sits on the Fun2Go and two additional passengers on the FunTrain.

A tow bar is simply fitted on an existing Fun2Go. The FunTrain has a safety lock which doesn't come off on its own and a completely automatic and hydraulic overrun brake. The driver of the front Fun2Go therefore has 100% control over both the FunTrain and Fun2Go.

The driver is the only one who steers and brakes, whereas all four riders can pedal along. Optionally it can also be determined for the co-riders individually whether they have to pedal at the same speed, can pedal individually or don't need to pedal at all. The FunTrain itself has a folding nosewheel so the bike can easily be moved around while disconnected.

You can attach up to two FunTrains behind one Fun2Go to make for a total of 6 riders.



### Suitable for:

Institutions, homes, and communities where one attendant wants to cycle with many individuals.

### Technical specifications

Seat height	61 cm
Step through height	None
Cycle weight	+/- 67 kg
Cycle length	197 cm
Cycle width	113 cm



Hydraulic overrun brake



Thick seatpillow (5 cm)



Footfixation



## Other Van Raam cycles

Van Raam also produces transport bikes, a comfortable low step through bike, and a walking aid.

Apart from this Van Raam also makes special bikes that are completely custom-made. This means that in case the standard Van Raam bikes with their options do not meet the requirements of a specific handicap or disability, a custom solution can be made. An example of this is the Bike made for someone with no arms. The person steers with their back/shoulders and changes gears with their feet. For more information about this contact Van Raam directly. You can find all contact details on the back of this brochure.







# Chat

Rickshaw transport bike

The Chat is a rickshaw bike where one attendant can cycle with on or two passengers. The two passengers can sit next to each other in the specially designed ergonomic seat on the front of the bike. The driver sits behind them and has a good view of both the passengers and the road.

The Chat gives people the opportunity to chat with each other while enjoying a comfortable ride. The bike is designed with an ergonomic seat with cushions and has comfortable suspension. With the Chat elderly people can together with young people discover the city and for example act as a guide and tell tales of the past. This way elderly people are taken out of social isolation. The Chat rickshaw bike comes with Van Raam's electrical system for pedal support as a standard. Optionally the Chat can be fitted with a canopy to protect passengers from the sun or rain.

## Geschikt voor:

With the Chat adults and/or children that are not able to ride on a bike on their own can take part in road traffic together.



## Technical specifications

Inside leg length	85 - 95 cm
Frame height	52 cm
Step through height	45 cm (rear)
Cycle weight	+/- 97 kg
Cycle length	232 cm
Cycle width	111 cm



## Balance

Comfortable low step through bike

The Balance low step through bike by Van Raam is a comfort bike with a low step through and a uniquely designed frame. With the Balance bike you can always place both your feet on the ground without getting off the saddle, and cycle with a comfortable movement of your legs. The great advantage of the Balance is the unique ergonomically designed seat. Wrists, shoulders and neck are hardly burdened while cycling.

The more forward pedalling motion ensures that you use the power of your legs better than in case of conventional bikes. The lower centre of gravity makes the cycling easier and more comfortable.

Therefore, the bike is much more than a low step through bike, it is safer because you do not have to get on and off the saddle at a stop. The Balance is also available with an electric engine for pedal assist and many other options.



### Suitable for:

Senior citizens, people having difficulty getting on and off a bike, people with neck, shoulder and wrist pains and people with slight balancing problems.

### Technical specifications

Inside leg length	67 - 82 cm or 76 - 91 cm or 85 - 100 cm
Frame height	42 cm, 51 cm, 60 cm
Step through height	23 cm
Cycle weight	+/- 22 kg
Cycle length	182 cm
Cycle width	66 cm





# City

Walking support

The City walking support is suitable for people who have difficulty in walking or prolonged standing. A wheelchair is not yet required and you do not prefer a walker. Your body weight is borne by the seat of the walking support, thus relieving your leg joints. Walking takes less effort, hence you can travel over longer distances. Besides, the walking support is foldable and light-weight, so you can easily carry it along in a car, bus, train or plane.



### Technical specifications

Inside leg length	70 - 95 cm
Frame height	47 cm
Step through height	22 cm
Cycle weight	+/- 9 kg
Cycle length	113 cm
Cycle width	55 cm



### Suitable for:

People having difficulty in walking or prolonged standing Walking support.



Foldable



Small frame



# Options

of Van Raam bicycles

Every Van Raam bicycle is available with many options, such as: baskets, mirrors, walking stick holders, lower leg and foot fixation, foot straps, belts, arm and back support, direction indicators, special handles, foot plates, hydraulic brakes, one-hand operation, a gear lever to easily control the speed, different gear systems, bike computers, and special cranks or frame adjustments. There are unique options for every type of bike. You can view these on the webpage of the specific Van Raam bike.

Using an eccentric crank the two legs can make different rotations so that you can easily cycle, even with a knee with a bending limitation. A crank shortener can help in compensating a length difference of the legs and other limitations in the legs. One can even cycle with one leg using a stationary crank.

As Van Raam produces every cycle uniquely, making special frame adjustments is no problem. We make the cycles completely uniquely as per your requirements. Therefore, we make frames for exceptional lengths, weight or other bodily limitations. You can contact Van Raam about the possibilities.



Foot fixation



Stick holder



Eccentric crank



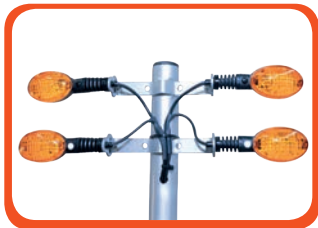
Gear lever



Lower leg fixation



Crank shortener



Direction indicators



Wheelchair holder



Stationary crank

## Colours

The cycles have a standard colour per model and a few other (fixed) optional colours, besides these, the cycle can be painted in any desired RAL colour.



# Pedal support

Van Raam has designed its own electrical system for pedal assistance called the Silent system. The motor, batteries, controller, software, and display have been especially designed by Van Raam. You have to always pedal along with this type of system. The Easy Go being the only exception where you can ride fully on the motor.

The Noise-free Silent system is always equipped with a starting aid. Using the button on the display you can ride at a speed of 5km/h for up to 10 metres without having to pedal along. This will help you get started more easily.

Using the Silent system on a bicycle with three wheels and freewheel hub, you can also cycle backwards simply by pedalling backwards. The Silent motors by Van Raam are equipped with traction control. This means that the motor does not spin on a slippery surface.

There is a standard Silent motor and a Silent HT motor. The HT version gives about 1.5 times the output of the standard motor. The Silent HT motor is mainly intended for heavier bikes or for use in hilly areas, yet it can also be used in case of low pedalling capacity of the rider(s).

The motion sensor, the force sensor in the pedals, and the unique software system ensure an optimal support and efficient energy consumption. Therefore, the pedal assist will be gradually built up and broken down. This prevents sudden actions of the motor.

Any Van Raam bike can be built with the electrical system and it can also be retrofitted on already existing bikes.



The Silent system of Van Raam has already been crowned with international prizes. This is owing to the fact that Van Raam has already attained many years of experience with the designing of electric bikes, which can take on really heavy loads.



**Silent VR1F motor**



**Silent HT VR2F**



**Silent HT VR2R**



# Batteries

Van Raam uses Lithium ion batteries with 10,7, 13.6 or 24.8 amp per hour and 36 volt. Thus a capacity of 1.785 Watt hour (WH) can be reached. The batteries and the special software are manufactured in the Netherlands. In practically all cycles, two battery packs can be optionally installed. The batteries are easy to remove from the bike and can be charged on the bike or at home.



**Slim battery ± 13 Ah**



**Rosenberg connector with battery indication**



**Battery charger**



**Cube battery ± 11 Ah**



**Cube Heavy accu ± 25 Ah**



## Van Raam E-Bike App

Now available for free in the Google Play Store and the Apple App Store, The Van Raam E-Bike App with which you can:

- Adjust bike settings;
- Send SOS messages with GPS location;
- Check cycling data during a bike ride;
- Change the pedal assistance.

The Van Raam dashboard application can be used as a luxurious bike computer while cycling with one of the Van Raam bicycles. The dashboard of the app displays the current speed, total distance, ridden kilometres, battery capacity, and power consumption. For more cycling data, there is a detailed screen that also displays the average speed, maximum speed, total distance, electricity, battery voltage, pedal power, pedal frequency, and much more. The Van Raam app includes a function that allows to change the pedal assistance of the electric motor to the 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> level. This can be selected under 'programs'. In addition, you can send an SOS message in the form of a text message containing your GPS location.

All of the Van Raam bicycles with pedal assistance (e-bikes) delivered after may 2017 and that have a smart display can be used with the Van Raam app. Older bikes can be reconstructed at Van Raam to make the app available for use. You can contact Van Raam for more information about this.



**More information?**

[www.vanraam.com/smart](http://www.vanraam.com/smart)



## Production process

### The Van Raam bicycle factory

Van Raam is a family business that has existed for more than 110 years. In one of the cleanest and most modern factories in The Netherlands of over 13.500 m<sup>2</sup>, more than 180 people work on the production of bicycles.

At Van Raam every bicycle is created from straight metal pipes into a complete and final product in its factory in Varseveld. With well-trained personnel, through continuous innovation, a modern production line, and thorough market research we make bicycles that meet the needs of its user. The combination of knowledge, solid craftsmanship, and accurate response to contemporary developments is a major characteristic of Van Raam. Van Raam uses modern equipment, but does not shy away from 'old-fashioned' handwork. Quality and durability are of great importance at Van Raam. It is for these reasons that Van Raam has been declared the 14<sup>th</sup> most innovative company in The Netherlands by the ministry of Economic Affairs and Climate Policy.

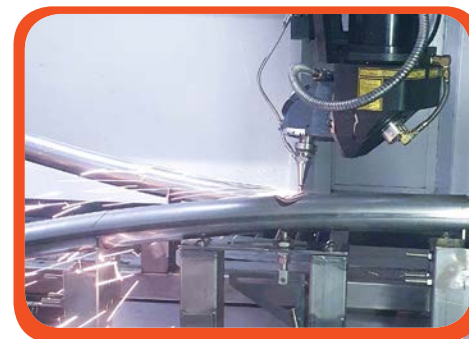
Furthermore, in recent years Van Raam has won a number of leading design, technology, and engineering awards such as: The innovation award, the Eurobike Gold Award, the 'Gelderse' factory of the future award, and the Guus Hiddink Business award. All Van Raam bikes are delivered with a CE declaration and Van Raam works according to the ISO 9001 guidelines as well as the certification of TUV Rheinland.



1. Design



2. Steel pipes



3. 3D laser cutting



4. Milling



5. Welding robot



6. Welding



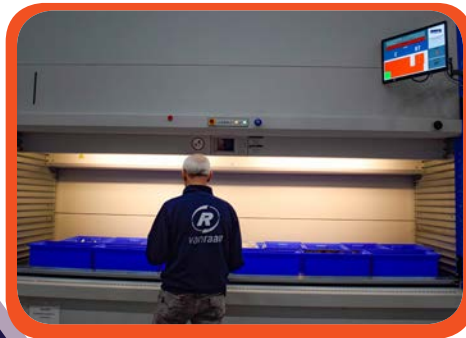
7. Solder



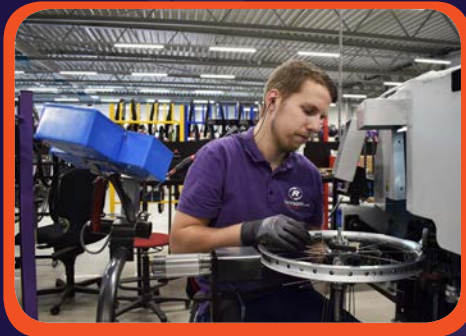
8. Blasting



9. Powdercoating



10. Collecting parts



11. Spoke machine



12. Assembling



## Purchasing a Van Raam bike

A showroom with all available bicycle models is located at Van Raam's factory in Varsseveld, The Netherlands. When you make an appointment with one of our advisors you can try all bikes on our test track. However, you cannot purchase your bike directly from there. This can be done through one of our dealers or your local bike shop.

**Would you like to make a test ride?** Contact Van Raam to plan your visit and get personal advice. The Van Raam bicycles are available worldwide at all dealers listed on the website. There are different types of dealers. Dealers can service your bicycle and have some, or all models available. Our dealers will deliver your bike, personally adjust it, and provide any service or maintenance needed. You can also purchase our bikes through most local bike shops and they can also provide regular service or maintenance.

**More information?** Visit [www.vanraam.com/dealers](http://www.vanraam.com/dealers).







## Would you like more information?

We uniquely produce every bike and all bikes can be adapted to your personal wishes. You can find up-to-date information such as prices, dealers and news via [www.vanraam.com](http://www.vanraam.com), the videos on YouTube and via Facebook, Twitter, Instagram, Pinterest and LinkedIn.



**YOUR DEALER:**

### **Van Raam**

Manufacturer special needs bikes

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