



dynamic body control
made in germany



pedelec

What is a pedelec?



Pedelec is short for "Pedal Electric Cycling"

A Pedelec is a bike with electrically assisted pedaling and the following characteristics:

- Pedelecs combine a bike with an electric motor, a rechargeable battery, control electronics, and sensors for recognising pedal movements.
- Pedelecs are considered bikes and may be used without a driving licence and insurance
- A helmet is not required but we do recommend wearing a bicycle helmet
- All pedelecs sold in the EU must comply with the DIN EN 15194 guideline
- While pedalling pedelecs are motor assisted up to a maximum of 25 km/h (15 mph)

Dashboard	6 - 7
Drive	8 - 9
<input type="checkbox"/> ergo_bike pedelec Comfort	10 - 11
<input type="checkbox"/> ergo_bike pedelec Trekking D	12 - 13
<input type="checkbox"/> ergo_bike pedelec Trekking H	14 - 15
Accessories	16 - 17
Specifications	18 - 19

contents

dynamic body

Best Quality for a Carefree Cycling Experience



After 16 successful years producing exercise machines daum electronic have made the move outdoors. In bringing our know-how and experience from the production of exercise machines to a new generation of bikes, designed and manufactured by ourselves in Germany, we are breaking exciting new ground. Daum pedelecs can be used to improve fitness as well as for recreational cycling; they are equipped with a powerful electric motor that provides pedalling assistance for every situation. The bicycles feature premium components from well-known manufacturers and have the intelligence – thanks to our electronic dashboard – to help make your riding experience as pleasurable as possible.



control

A person is riding a bicycle in front of a modern glass building. The image is partially obscured by a dark green text box on the right side. The word 'control' is written in large white letters at the top left.

Fitness

Daum pedelecs combine premium fitness training with pure cycling fun by bringing daum's proven exercise machine technology to the road. User-definable settings allow the rider to control their cycling experience and measure their improving endurance and fitness. Data such as heart rate, ride time, speed and distance can be stored on an SD card, reviewed, and evaluated. The technology is ideal not just for therapeutic purposes; health conscious riders can pedal for preset distances under the guidance of the tour management system and check their individual health readings.

Safety

To give the rider the utmost reassurance and confidence all our pedelecs are equipped with the daum safety pack. Our high standards apply to all aspects of the bikes: all components are assembled in the daum factory according to the strictest and latest DIN standards. Our in-house developed dashboard software controls everyday safety. The motor itself is powered by a rechargeable battery tested for safety. When the brakes are activated the motor will switch off immediately. Moreover, both the pedelec and the dashboard are equipped with PIN controlled theft protection. In case of emergency the bicycle can be traced anywhere via position data transmission through SMS. Finally, our pedelecs, including the rechargeable battery, are covered by a two year warranty.

Comfort

Thanks to our outstanding technology, daum pedelecs make you feel you are always pedalling with a tailwind. You can adjust the 3-stage drive assistance by means of the control buttons conveniently located on the handlebar, and thus enjoy exactly the right level of assistance, while the integrated tour management system shows your directions on the display. Cycle routes are available for internet download, e.g. from www.GPSies.com and can be loaded onto the dashboard by means of the SD card. Alternatively, your own routes can be uploaded to the server. A 36V rechargeable battery powers the motor, enabling you to travel up to 80 km (50 miles) on a single charge. The battery is fully recharged after only 3 hours charging time, ready for the next relaxed ride.

pedelec Dashboard





Get on. Start. Relax - Thanks to daum intelligent technology.

Our dashboards are designed with one main aim: to make your cycling as easy and enjoyable as possible. Daum's intelligent technology design broadens the horizons of both the pedelec and its users alike. All important information is clearly shown on the high performance graphic display, so that you are always in control of the speed, distance, pulse rate and current trip data. It's simple to change the settings and the displayed data using the intuitive control button. As soon as your pedalling effort drops below a user defined limit, the sensor starts the motor which smoothly assists your cycling. In the premium version the dashboard can even act as your tour guide. GPS signals continuously determine your position. You can save the routes and reuse them for later trips. You can download routes from the internet, e.g. [www. GPSies.com](http://www.GPSies.com), and add your own too.

Dashboard, classic version:

- integrated SD/SDHC memory card reader
- interference-free digital heart rate receiver
- integrated buzzer
- entry and display of personal limit values
- several display data: speed, assistance mode, date, time, heart rate, distance, travel time, average speed
- recording of heart rate, speed, distance and travel time on SD card
- display of remaining battery charge
- gear recommendation
- 9.4 cm (3.7") grey scale display with backlight and brightness sensor
- option to export the travelled distances to the daum exercise machine with heart rate and speed
- evaluation of personal data
- software update via SD card

Control Panel:

- control buttons conveniently located on the handlebar (e.g. to adjust the pedalling assistance)
- pushing assistance up to 6 km/h (4 mph)

Dashboard, premium version with additional equipment:

- GSM module with GPS for enhanced documentation of cycling tours
- transmission of position data via SMS or internet (requires SIM card)
- barometric height measurement
- theft protection with SMS notification (requires SIM card)
- several display data with recording on SD card: GPS coordinates, temperature, incline, height above sea level

Drive





The heart of the pedelec is the motor

The drive unit developed by daum combines both top class technical know-how and top quality workmanship, and it is made in Germany. Mounted centrally on the bottom bracket, its precise mechanism and intelligent electronics provide powerful assistance and a relaxed riding experience.

The wear-free electric motor is controlled by a power measuring system sensing the torsion of the pedal shaft and permanently communicating with the electronic system. Powered by a high performance lithium-ion rechargeable battery tested for safety, it guarantees relaxed riding pleasure for up to 80 km (50 miles).

Power

The 250W brushless electric motor is wear-free and drives the pedal crank shaft. A two speed transmission, located in the waterproof aluminium housing, changes almost noiselessly as needed to compensate for lighter pedalling. Variable assistance is determined by pedalling force.

Intelligence

A sensor system permanently measures the torsion of the pedal shaft, determining the force applied by the cyclist. The electronic system reacts instantaneously, giving continuously variable motor control. The gear recommendation function increases the pedelec's range considerably by optimising energy consumption; this makes for very economic cycling.

Safety

The motor is equipped with several safety mechanisms. The electronic system will switch off the motor as soon as a brake lever is pulled. This guarantees a jerk-free stop and smooth start, e.g. at traffic lights. The motor was developed and is manufactured in Germany by daum electronic in compliance with the specifications of the DIN EN 15194 standard.

Endurance

The 36V battery is equipped with the latest lithium-ion battery technology. This reduces the weight of the power packs while extending the travel range. At approx. 3.6 kg, the battery pack gives a travel range of up to 80 km (50 miles), depending on the selected assistance mode, the terrain profile and your weight. The charging time for discharged batteries is under 3 hrs which is very fast for a pedelec.



ergo_bike pedelec Comfort

Effective cycling is a question of drive.

To get where you want to go without too much effort. To take some gentle exercise yet always arrive relaxed. The ergo_bike pedelec Comfort is the ideal companion for health conscious everyday cyclists. Its low step-through style frame makes the bike easy, convenient and safe to use. The daum safety pack, with its intelligent protection mechanism, makes your cycling as safe as possible. Whether you're on the way to work, on the open road or shopping, the wear-free pedal drive and the power measuring system will assist you in every pedalling situation. You'll be improving and maintaining your level of fitness while improving your carbon footprint.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layered clear coating, with internally routed cables

Fork:

adjustable, Suntour brand

Handlebar/Stem:

Aluminium stem adjustable, curved touring handlebar compliant with DIN EN 14764, ergonomic grips free of toxic substances

Gear System:

Shimano Nexus Inter 8 Premium free-wheel hub, total transmission ratio 307%, rotary handlebar gear shift with gear indicator

Brakes:

V-brakes with power modulator front and rear, brake lever with safety motor cutout

Wheels:

Aluminium extruded rims, stainless steel spokes

Tyres:

Schwalbe Marathon with Kevlar Guard puncture protection and reflective stripes, 700x40c (28")

Hub Dynamo:

Shimano DH-3N80 6V, 3W rolling resistance, 75% less than with customary dynamos

Front Light:

Busch & Müller Lumotec Fly LED-IQ-Tec 40 Lux with light sensor and automatic standlight, 300% brighter than required by German road traffic regulations (StVZO), winner of the Eurobike Gold Award 2007

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality comfortable gel / cold foam saddle, suspended aluminium seat post

Carrier Rack:

Material 6061, carrying capacity 25 kgs, tested in compliance with DIN EN 14872, with aluminium battery box and lockable battery compartment, elastic rubber straps to secure luggage

Weight:

26 kgs including battery

Seat Height:

Frame size 44: min. 89 cm (35"), max. 100 cm (39.4") measured from the ground; step-through depth 46 cm (18.1");
Frame size 52: min. 95 cm (37.4"), max. 110 cm (43.3") measured from the ground; step-through depth 46 cm (18.1")

Miscellaneous:

Anti-slip safety pedals, side stand

ergo_bike pedelec Comfort classic

Colour: silver

Frame size: 44, order number: 9514844

Frame size: 52, order number: 9514852

Colour: black

Frame size: 44, order number: 9504844

Frame size: 52, order number: 9504852

ergo_bike pedelec Comfort premium

Colour: silver

Frame size: 44, order number: 9515844

Frame size: 52, order number: 9515852

Colour: black

Frame size: 44, order number: 9505844

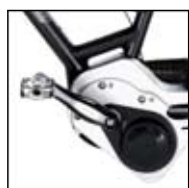
Frame size: 52, order number: 9505852



ergo_bike pedelec Trekking D

Enjoy the countryside in relaxed comfort.

Your leisure time is important to us. That's why we developed a bicycle which combines both the power and elegance of a trekking bike with the serenity of pedelec technology. The ergo_bike pedelec Trekking D fully has been designed with ladies requirements in mind. While the wear-free pedal drive assists your pedalling, you can, thanks to the gear recommendation function, fully concentrate on the pleasure of cycling. All functions can be set easily and intuitively on the conveniently located control buttons or on the dashboard. The daum safety pack, with its intelligent protection mechanism, makes your cycling as safe as possible. This all guarantees you relaxed riding comfort everywhere you go.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layered clear coating

Fork:

adjustable, Suntour brand

Handlebar/Stem:

Aluminium stem adjustable, stem type trekking handlebar compliant with DIN EN 14764, ergonomic grips free of toxic substances

Gear System:

Shimano Nexus Inter 8 Premium free-wheel hub, total transmission ratio 307%, rotary handlebar gear shift with gear indicator

Brakes:

V-brakes with power modulator front and rear, brake lever with safety motor cutout

Wheels:

Aluminium extruded rims, stainless steel spokes

Tyres:

Schwalbe Marathon Cross with Kevlar Guard puncture protection and reflective stripes, 700x38c (28")

Hub Dynamo:

Shimano DH-3N80 6V, 3W rolling resistance, 75% less than with customary dynamos

Front Light:

Busch & Müller Lumotec Fly LED-IQ-Tec 40 Lux with light sensor and automatic standlight, 300% brighter than required by German road traffic regulations (StVZO), winner of the Eurobike Gold Award 2007

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality comfortable gel / cold foam saddle, suspended aluminium seat post

Carrier Rack:

Material 6061, carrying capacity 25 kgs, tested in compliance with DIN EN 14872, with aluminium battery box and lockable battery compartment, elastic rubber straps to secure luggage

Weight:

26 kgs including battery

Seat Height:

Frame size 44: min. 89 cm (35"), max. 100 cm (39.4") measured from the ground;
Frame size 52: min. 95 cm (37.4"), max. 110 cm (43.3") measured from the ground

Miscellaneous:

Anti-slip safety pedals, side stand

ergo_bike pedelec Trekking D classic

Colour: silver

Frame size: 44, order number: 9510844

Frame size: 52, order number: 9510852

Colour: black

Frame size: 44, order number: 9500844

Frame size: 52, order number: 9500852

ergo_bike pedelec Trekking D premium

Colour: silver

Frame size: 44, order number: 9511844

Frame size: 52, order number: 9511852

Colour: black

Frame size: 44, order number: 9501844

Frame size: 52, order number: 9501852



ergo_bike pedelec Trekking H

Enjoy the countryside in relaxed comfort.

Your leisure time is important to us. That's why we developed a bicycle which combines both the power and elegance of a trekking bike with the serenity of pedelec technology. Whether cycling energetically offroad or elegantly through city streets, you can enjoy the scenery while the wear-free pedal drive assists your pedalling as much as you want. The battery is good for up to 80 km (50 miles). The daum safety pack, with its intelligent protection mechanism, makes your cycling as safe as possible. All this leaves you the freedom to get out there and explore - or follow routes downloaded from the internet.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layered clear coating

Fork:

adjustable, Suntour brand

Handlebar/Stem:

Aluminium stem adjustable, stem type trekking handlebar compliant with DIN EN 14764, ergonomic grips free of toxic substances

Gear System:

Shimano Nexus Inter 8 Premium free-wheel hub, total transmission ratio 307%, rotary handlebar gear shift with gear indicator

Brakes:

V-brakes with power modulator front and rear, brake lever with safety motor cutout

Wheels:

Aluminium extruded rims, stainless steel spokes

Tyres:

Schwalbe Marathon Cross with Kevlar Guard puncture protection and reflective stripes, 700x38c (28")

Hub Dynamo:

Shimano DH-3N80 6V, 3W rolling resistance, 75% less than with customary dynamos

Front Light:

Busch & Müller Lumotec Fly LED-IQ-Tec 40 Lux with light sensor and automatic standlight, 300% brighter than required by German road traffic regulations (StVZO), winner of the Eurobike Gold Award 2007

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality comfortable gel / cold foam saddle, suspended aluminium seat post

Carrier Rack:

Material 6061, carrying capacity 25 kgs, tested in compliance with DIN EN 14872, with aluminium battery box and lockable battery compartment, elastic rubber straps to secure luggage

Weight:

26 kgs including battery

Seat Height:

Frame size 48: min. 93 cm (36.6"), max. 107 cm (42.1") measured from the ground;
Frame size 56: min. 100 cm (39.4"), max. 116 cm (45.7") measured from the ground

Miscellaneous:

Anti-slip safety pedals, side stand

ergo_bike pedelec Trekking H classic

Colour: silver

Frame size: 48, order number: 9512848

Frame size: 56, order number: 9512856

Colour: black

Frame size: 48, order number: 9502848

Frame size: 56, order number: 9502856

ergo_bike pedelec Trekking H premium

Colour: silver

Frame size: 48, order number: 9513848

Frame size: 56, order number: 9513856

Colour: black

Frame size: 48, order number: 9503848

Frame size: 56, order number: 9503856

Accessories





Shopping Basket

The KLICKfix basket can easily be mounted on the handlebar with just a click and comes with a matching handlebar adapter.

Order number: 9091041



Chest Belt

Digitally encoded heart rate transmission system sends heart rate data reliably using 868 MHz to the dashboard from a distance of up to 3 m, allows your heart rate to be displayed on the dashboard as well as recorded on the SD card. Easy to use and comfortable to wear.

Order number: 9091036



Luggage Bags

Laptop and Office Bag

Equipped with magnetic press-in lock and additional zipper, two zipper compartments and side pockets, detachable inside pocket, carry handle, shoulder strap. Volume: 16 l. Dimensions: L40 x H32 x W12 cm. Fastening system: vario hooks.

Order number: 9091042



Shopping Bag

Colour: black/granite

Equipped with outside pocket, reinforcement, zipper, carry handle, reflective stripes.

Volume: 15 l. Dimensions: L36 x H32 x W15 cm.

Order number: 9091043



Trekking Bag

Colour: black/granite

Equipped with water repellent tarpaulin fabric, inside frame and reinforcement of unbreakable PE material, outside pocket, carry handle, reflective stripes, reflective push button, can be used on either side of the carry rack. Volume: 17 l.

Dimensions: L30 x H32 x W16 cm.

Order number: 9091044

Specifications



	Comfort	Trekking D	Trekking H
Chassis			
Aluminium frame AL 6061, polished, high quality paintwork	•	•	•
Frame size S/M	44 cm (17.3")	44 cm (17.3")	48 cm (18.9")
Frame size L/XL	52 cm (20.5")	52 cm (20.5")	56 cm (22")
Adjustable suspension fork SR Suntour	•	•	•
Drive			
Powerful 250 Watt central motor drive developed and manufactured by daum in compliance with DIN EN 15194, low noise technology, daum sensors for recognition of crank movements and pedalling force	•	•	•
Intelligent assistance mode adjustable in 3 levels	•	•	•
Pushing assistance up to 6 km/h (4 mph)	•	•	•
Pedalling assistance 0-25 km/h (0-15 mph)	•	•	•
Rechargeable battery			
Lithium-ion technology, 9.5 Ah, 36 Volt	•	•	•
Life expectation: about 500 charging cycles, 3-4 years	•	•	•
External charger 115/230 Volt, 4 Amperes, charging time 0-100 % about 3 hours	•	•	•
Handlebar and control elements			
Curved ALU touring handlebar, ALU stem adjustable for height and tilt	•		
Stem type ALU trekking handlebar, ALU stem adjustable for tilt		•	•
Ergonomic handlebar grips, free of toxic substances	•	•	•
Control block conveniently located on the left side for assistance mode +/-, pushing assistance, dashboard displays (scan)	•	•	•
Rotary handle on the right side with gear display	•	•	•
Brake lever with safety motor cutout on both sides	•	•	•
9.4 cm (3.7") dashboard grey scale display with backlight and brightness sensor	•	•	•
Gear shift			
Shimano Nexus 8 speed free-wheel hub, total transmission ratio 307%, gear shift via rotary handle with gear indicator	•	•	•
Brakes			
Mechanical rim V-brakes with power modulator front and rear	•	•	•
Wheels			
Aluminium extruded rims 700c (28"), stainless steel spokes 2mm	•	•	•
Schwalbe Marathon with puncture protection and reflective stripes, 42-622	•		
Schwalbe Marathon Cross with puncture protection and reflective stripes 40-622		•	•
Plastic mudguards with edge protection and rear spoiler	•	•	•
Lighting system			
Shimano hub dynamo front 6 Volt, minimal rolling resistance	•	•	•
LED front light B&M Lumotec Fly IQ senso plus, 40 Lux, with light sensor and automatic standlight	•	•	•
LED rear light B&M Toplight flat with automatic standlight	•	•	•
Miscellaneous			
High quality comfortable gel / cold foam saddle, suspended aluminium seat post	•	•	•
Stable ALU carrier rack with lockable aluminium battery compartment, elastic rubber straps to secure luggage, possibility to attach extra pack bags, carrying capacity 25 kg	•	•	•
Anti-slip safety pedals	•	•	•
Aluminium side stand	•	•	•
Dimensions and weight			
Weight of bike without battery	ca. 22 kg	ca. 22 kg	ca. 22 kg
Weight of the battery	ca. 3.6 kg	ca. 3.6 kg	ca. 3.6 kg
Authorised total weight (rider and bicycle)	125 kg	125 kg	125 kg
Seat height for frame size S/M	89-100 cm (35-39.4")	89-100 cm (35-39.4")	93-107 cm (36.6-42.1")
Seat height for frame size L/XL	95-110 cm (37.4-43.3")	95-110 cm (37.4-43.3")	100-116 cm (39.4-45.7")
Step-through depth	46 cm (18.1")		
Colours			
Silver metallic	•	•	•
Black metallic	•	•	•



Dashboard
Classic

Dashboard
Premium

Control buttons located on handlebar

Pushing assistance up to 6 km/h (4 mph)

• •

Preselection of intelligent assistant mode +/- (3 levels)

• •

Preselection of the values displayed on the dashboard (scan)

• •

Dashboard functions

9.4 cm (3.7") grey scale display with backlight and brightness sensor

• •

Card slot for SD card, integrated SD/SDHC memory card reader

• •

Interference-free digital heart rate receiver

• •

Integrated buzzer

• •

Storage of heart rate, speed, distance and travel time on the SD card

• •

Variable assistance determined by pedalling force

• •

Barometric height measurement

• •

GSM module with GPS for enhanced documentation of cycling tours, transmission of position data via SMS or internet (requires SIM card)

• •

Theft protection via SMS notification (requires SIM card)

• •

Gear recommendation for optimal travel range

• •

Software update via SD card

• •

Dashboard display values

Assistance mode

• •

Display of remaining battery charge

• •

Speed

• •

Average speed

• •

Maximum speed

• •

Trip distance

• •

Total trip distance

• •

Daily travel time

• •

Total travel time

• •

Clock

• •

Date

• •

Heart rate (requires chest belt)

• •

Average heart rate (requires chest belt)

• •

Temperature

• •

Incline

• •

Height above sea level

• •

GPS coordinates

• •

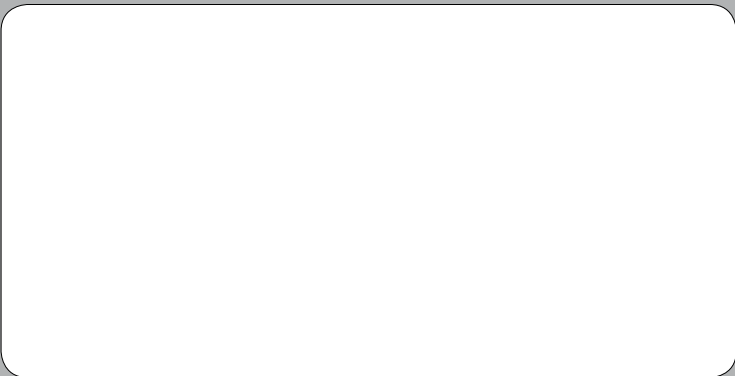
Subject to changes in technology, equipment and illustrations

To learn more about the complete world of daum electronic products with all our award winning exercise machines, please ask for our general catalogue.

www.daum-electronic.de/katalog



Your dealer:



daum electronic gmbh
www.daum-electronic.de