



dynamic body control

made in germany



pedelec



What's a pedelec?



Pedelec stands for Pedal Electric Cycling

It designates a bike with electric assisted pedalling having the following characteristics:

- Pedelecs combine a bike with an electric motor, a rechargeable battery, control electronics, and sensors for recognising crank movements.
- Pedelecs are considered bikes and may be used without driving licence and without automobile liability 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 assisted by a motor from 0 to 25 km/h

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 Trouble Free Riding Experience



After 16 years of successfully producing ergometers, daum electronic made the move into the outdoor world: By developing and manufacturing the pedelecs we break into new grounds and bring our know-how and experience from the production of ergometers to a new generation of bikes. Daum pedelecs can be used for health promotion as well as for recreational biking, they are equipped with a powerful electric motor providing adequate pedalling assistance for every situation. The bicycles feature premium bike components of well-known manufacturers and have the control intelligence – thanks to the outstanding dashboards of our own development – to help make your riding experience as trouble free 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 and aesthetical fitness training and biking fun. They bring the proven daum ergometer technology to the roads. Defineable limit values provide for controlled biking and a measured enhancement of endurance and fitness. All the data, for instance the heart rate, ride time, speed, and distance can be stored on a SD card, reviewed, and evaluated. An ideal technical prerequisite not only for therapeutic purposes: health oriented users can pedal for preset distances under guidance by the tour management system and obtain their individual biological values.

Safety

In order to always give bikers the feeling of an unrestricted reliability in their day-to-day use, all pedelecs are equipped with the daum safety pack. This high standard already begins with the production: all components are assembled in the daum factory according to strictest and latest DIN standards. The dashboard software of the own development takes over everyday safety control. A 3D position sensor monitors the vertical and horizontal tilt and reacts immediately when the limit is exceeded by switching the motor on or off. The motor itself is powered by a rechargeable battery tested for safety. Also when the brake is activated, the motor will switch off immediately to prevent uncontrolled bike movements. Moreover, the pedelec as well as the dashboard are equipped with a PIN controlled theft protection. In case of emergency the bicycle can be traced everywhere via position data transmission through SMS. All the pedelecs, including the rechargeable battery, are covered by a two year warranty.

Comfort

Thanks to outstanding technology, daum pedelecs will make you feel you are always pedalling with tailwind. You can adjust the 3-stage drive assistance by means of the control buttons conveniently located on the handlebar, and thus have it always adapted to your needs, while the integrated tour management system shows the right directions on the display. Several tours are available for download on www.daum-electronic.de and can easily be loaded on the dashboard by means of SD card. The other way around, own routes can be uploaded to the server. A 36V rechargeable battery powers the motor, enabling to travel up to 80 kms with one charge. The battery is fully recharged after only 3 hours charging time and ready for the next relaxed ride.

pedelec Dashboard





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

We focussed our dashboards on one central function: To make your biking as convenient as possible. The intelligent technology design made by daum broadens the horizon of the pedelec and that of its users alike. All important data are 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. Simply and intuitively turn the control button to change the settings and the displayed data. As soon as your pedalling force drops too much within the self defined limit values, the sensor gives the impulse to start motor assistance and thus provides for a steadily comfortable biking. In the Premium version the dashboard will even become your perfectly equipped tour guide. GPS data acquisition will continuously determine your position. These data let you save the travelled routes and reuse them for later trips. A reserved area is set up on www.daum-electronic.de where you can download predefined routes as well as upload your own ones.

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
- 3.7" grey scale display with backlight and brightness sensor
- option to export the travelled distances to the daum ergometer 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)
- starting and pushing assistance up to 6 km/h

Dashboard, premium version with additional equipment (available third quarter):

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

Drive





The heart of the pedelecs beats in the motor – whenever it's needed

The drive unit developed by daum combines both top class technical know how and top quality workmanship „made in Germany“. Mounted on a central position of the bottom bracket, it provides with its precise mechanism and intelligent electronics a powerful assistance and relaxed riding experience.

The wear-free electric motor is controlled by a power measuring system sensing the torsion of the pedals shaft and permanently communicating with the electronic system. Driven by a high performance lithium-ion rechargeable battery tested for safety, it guarantees a relaxed riding pleasure for up to 80 kms. The sensors detect both horizontal and vertical tilts of the bike and react immediately either by switching off the motor or by giving the impulse for a stronger pedalling assistance.

Power

The 250W electric motor is wear-free (brushless) and drives the rear wheel directly through the pedals' axleshaft. A two speed transmission, located in the waterproof aluminium housing, is shifted as needed to compensate for insufficient pedalling forces, almost noiselessly.

Intelligence

A sensor system permanently measures the torsion of the pedal shaft, determining the force applied by the cyclist. The electronic system reacts instantaneously, ensuring a continuously variable motor control. The gear recommendation increases the pedelec's range considerably by optimising the energy consumption and thus contributing decisively to economic cycling.

Safety

The motor is equipped with several safety mechanisms. The 3D position sensors detect both horizontal and vertical tilts and react immediately by switching off the motor or by giving an impulse for stronger pedalling assistance. Furthermore, 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 by daum electronic in compliance with the specifications of the DIN EN 15194 standard.

Endurance

The 36V battery is equipped with lithium-ion technology, the latest battery technology for electric bikes. This reduces the weight of the power packs while extending the travel range. The approx. 3.6 kgs battery pack allows a travel range of up to 80 kms, depending on the selected assistance mode, the terrain profile and your weight. The charging time for discharged batteries is under 3 hrs and thus pretty fast.



ergo_bike pedelec Comfort

Convenient biking is a question of drive.

To meet everyday movement quotas without any excessive strain. To be flexible and always arrive relaxed. The ergo_bike pedelec Comfort is the ideal companion for health conscious everyday cyclists. A low step-through frame provides the convenient and safe use of the bike. The individual pedal position in combination with the starting off assistance allow a safe start at each traffic situation. The daum safety pack with its intelligent protecting mechanism cares for your wellbeing. Wether on the way to work or for shopping. The wear-free pedal drive and the power measuring system will assist you in each pedalling situation. You can thus think of building up and maintaining your fitness level while improving your personal eco-balance.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layers clear coating, with internally driven 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%, gear shift over rotary handle 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 Award 2007 in Gold

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality convenient 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 fix the luggage

Weight:

approx. 26 kgs including battery

Seat Height:

Frame size 44: min. 89 cm, max. 100 cm measured from the ground; step-through depth 46 cm;

Frame size 52: min. 95 cm, max. 110 cm measured from the ground; step-through depth 46 cm

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

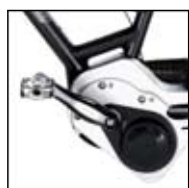
Frame size: 52, order number: 9505852



ergo_bike pedelec Trekking D

A relaxed experience of the nature.

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 the pedelec technology. The ergo_bike pedelec Trekking D fully corresponds to the ladies' ergonomic requirements. While the wear-free pedals drive assists you in pedalling, you can, thanks to the gear recommendation, fully concentrate on the riding pleasure. 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 cares for your wellbeing at any time. That guarantees a relaxed riding comfort everywhere.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layers 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%, gear shift over rotary handle 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 Award 2007 in Gold

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality convenient 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 fix the luggage

Weight:

approx. 26 kgs including battery

Seat Height:

Frame size 44: min. 89 cm, max. 100 cm measured from the ground;
Frame size 52: min. 95 cm, max. 110 cm 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

A relaxed experience of the nature.

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 the pedelec technology. Whether sportively offroad or elegantly in the urban traffic. You can go on the journey with full swing and enjoy the scenery while the wear-free pedals drive assists your pedalling. The battery holds for up to 80 kms and provides power also for longer trips. The daum safety pack with its intelligent protection mechanism cares for your wellbeing. You can thus discover new ways or get back to the routes recommended in our database.



Frame:

Frame material aluminium 6061, tested according to DIN EN 14764, wet painted with double layers 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%, gear shift over rotary handle 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 Award 2007 in Gold

Rear Light:

Busch & Müller Toplight Flat plus LED with standlight function

Saddle:

High quality convenient 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 fix the luggage

Weight:

approx. 26 kgs including battery

Seat Height:

Frame size 48: min. 93 cm, max. 107 cm measured from the ground;

Frame size 56: min. 100 cm, max. 116 cm 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 klick and comes with a matching handlebar adapter.

Order number: 9091041



Chest Belt

The digitally encoded heart rate transmission system sends the heart rate data reliably with 868 MHz to the dashboard from a distance of up to 3 m, enabling a heart rate controlled ride of the pedelec. 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. Dimension: 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. Dimension: 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.

Dimension: L30 x H32 x W16 cm.

Order number: 9091044

Specifications



	Comfort	Trekking D	Trekking H
Chassis			
Aluminium frame AL 6061, polished, high value painting	•	•	•
Frame size S/M	44 cm	44 cm	48 cm
Frame size L/XL	52 cm	52 cm	56 cm
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	•	•	•
Starting and pushing assistance up to 6 km/h	•	•	•
Pedalling assistance 0 - 25 km/h	•	•	•
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 in height and tilt	•		
Stem type ALU trekking handlebar, ALU stem adjustable in tilt		•	•
Ergonomic handlebar grips, free of toxic substances	•	•	•
Control block conveniently located on the left side for the assistance mode +/-, starting and pushing assistance, dashboard displays (scan)	•	•	•
Rotary handle on the right side with gear display	•	•	•
Brake lever with safety motor cutout on both sides	•	•	•
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 over 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 convenient gel / cold foam saddle, suspended aluminium seat post	•	•	•
Stable ALU carrier rack with lockable aluminium battery compartment, elastic rubber straps to fix the luggage, possibility to attach extra pack bags, carrying capacity 25 kg	•	•	•
Anti-slip safety pedals	•	•	•
Aluminium side stand	•	•	•
Dimensions and weight			
Weight 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
Seat height for frame size S/M	89 - 100 cm	89 - 100 cm	93 - 107 cm
Seat height for frame size L/XL	95 - 110 cm	95 - 110 cm	100 - 116 cm
Step-through depth	46 cm		
Colours			
Silver metallic	•	•	•
Black metallic	•	•	•



Dashboard
Classic

Dashboard
Premium

	Dashboard Classic	Dashboard Premium
Control buttons located on handlebar		
Starting and pushing assistance up to 6 km/h	•	•
Preselection of the intelligent assistant mode +/- (3 levels)	•	•
Preselection of the values displayed on the dashboard (scan)	•	•
Dashboard functions		
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 the heart rate, speed, distance and travel time on the SD card	•	•
Incline adjusted pedalling assistance		•
Barometric height measurement		•
GSM module with GPS for enhanced documentation of biking tours, transmission of position data via SMS or internet (requires SIM card)		•
Theft protection per 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		•
Gear recommendation		•
GPS coordinates		•

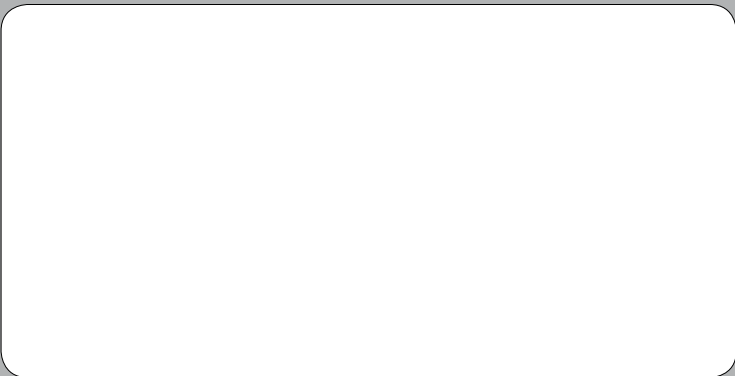
Premium versions available from September 2009
Subject to change in technology and equipment

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

www.daum-electronic.de/katalog



Your dealer:



daum electronic gmbh
www.daum-electronic.de