

# YOUR BERNDS-*Folding Bike*

made in Germany

since 1991



BERNDS 

# Congratulations on your new **BERNDS-Folding Bike!**

## Dear Customer,

we have summarised for you the most important points about your **BERNDS-Folding Bike**. Before your first ride, please take the time to read this data sheet.

If you are unable to find something or need further information, if you have any requests or suggestions, **contact us at [info@bernds.de](mailto:info@bernds.de)**!



## Your **BERNDS-Folding Bike** – the all round classic

Your **BERNDS-Folding Bike** gives you **consummate riding performance, suitable for long trips** and at the same time an extremely **compact size when folded**. With its high-quality steel frame, it is built to last a lifetime.

Since we use standard components as far as possible, you can get hold of a **wide range of individual accessories** at any time. Even if your requirements should change in the course of time, you can be sure that you will be able to adapt your **BERNDS-Folding Bike** at any time.

Not only accessories, but everything regarding our products you will find on our website at **[www.bernds.de](http://www.bernds.de)**, where there is always interesting, updated information.

Visit us!

**The team at BERNDS wishes you pleasant cycling!**

## Adjusting your BERNDS-Folding Bike

### Saddle height and angle

Loosen the Allen screw (no. 5 Allen key) at the top of the seat tube and adjust the saddle so that when the pedal is at the bottom of its travel, your leg is straight when your heel is standing on the pedal. Point the saddle straight forward. Even after folding and unfolding the seatpost, the saddle will still be in this position which is the right one for you!

### Handlebar height and angle

There are various sitting positions which are all equally ergonomic and appropriate depending on your riding style. Adjust the height and angle of the handlebars so that you adopt a comfortable position when seated. If this seems not to be possible, ask us: you can obtain from us many different handlebar shapes and stems with a variety of heights and lengths.

### Brake handle, bell

If need be, you can adapt the reach to suit your own hand size on all brake handles. To do this, read the enclosed operating instructions for the brakes. Adjust the bell so that you can reach it comfortably at any time. **If you have any questions, get in touch with your specialist dealer or with us. We will be happy to advise you.**

## Before every trip

- The handlebar stem and the seatpost must be securely tightened.
- All quick-release catches must be locked hand tight.
- If you are using folding pedals, these must be folded out and latched.
- Check the functioning of the brakes by rolling the bike forward and pulling on the brakes. The brake handles must move easily and take effect immediately.
- At twilight, always ride with the lights on and check before setting off that the lighting system is working.
  - With a bottle dynamo, click it into place and crank the rear wheel with the bike on the stand.
  - With a hub dynamo, the front and rear lights should come on as soon as the bike moves.
- Lift the bike a few centimetres and let it drop onto the ground. If you hear any rattling or unusual noises, check for the cause and rectify it: if necessary, tighten any bolts.
- Always ride with enough tyre pressure. The minimum and maximum pressures are marked on the sidewall of the tyres.
- Do not ride with worn tyres.

## How do you fold up your BERNDS folding bike?

Hold your **BERNDS-Folding Bike** with your left hand on the handlebars and your right hand on the saddle. If there is a footstand, put it down.

1. **Folding in the front wheel:** Rotate the handlebars clockwise about  $\frac{3}{4}$  of a turn so far that the handlebars and the front wheel are pointing towards you.
2. **Swinging in the rear sub-frame:** Stand with your foot either on the rear sub-frame, rear axle nut or on the luggage rack. Then lift up your **BERNDS-Folding Bike** by the saddle so that the suspension unit comes loose from the catch.

Swing the rear sub-frame forwards until the rear wheel is resting against the frame tube: the rear wheel will hold itself in position as well on the front wheel spokes and on the seat tube. You can now fold up the footstand; it will hold the front wheel to prevent it turning.

**Note:** With derailleurs gears (and Dual Drive), you should put it into one of the top three gears (the ones with the larger sprocket diameter) before swinging in the rear sub-frame: this will prevent the chain coming off.

3. **Folding in the handlebars:** Loosen the quick-release lever on the handlebar stem, pull the handlebar unit upwards from the tube, and lay it flat on the frame or on the rear wheel on the chain side.



4. **Folding in the seatpost:** Loosen the quick-release lever on the seatpost, pull the seat tube upwards and out of the frame until you can feel the end stop and lay it on the left next to the frame tube. Fix the saddle and handlebars with the lashing strap by attaching the hook on the strap to a wheel spoke.

**The next step reduces the size when folded even further:**

- **Optionally: to remove the front wheel:** Loosen the clip immediately above the front forks with a 6 mm Allen key and pull the front wheel complete with forks downwards and out of the tube. **Caution:** The forks are still connected to the handlebars via the Bowden cable belonging to the front brake and possibly via the electric wire from the hub dynamo. Take care when unfolding that the forks are pushed completely into the head tube as far as the end stop and that subsequently the clip is closed hand tight!

Unfolding your **BERNDS-Folding Bike** is done by reversing the sequence.

**Important notes on safety!**

- The handlebar stem and the upper seatpost should never be pulled out further than the safety mark which shows the maximum extension.
- The lower seatpost must be pushed right down while riding!
- Mounting sprung saddles or seatposts is not permitted!
- The maximum payload including the rider is 140kg.
- Your *BERNDS-Folding Bike* is suitable for riders between 1.40 and 2.10m tall. If your height or weight exceed the stated maximum, please get in touch with us.
- Carry luggage only in the bags and baskets intended for the purpose which are correctly fastened and only up to their stated maximum weight. Our accessory range includes a wide selection of individual solutions.
- Children may only be transported on an approved and correctly mounted child seat.
- Follow the applicable national regulations! In Germany *BERNDS-Folding Bike* only complies with the traffic regulations when provided with an approved lighting system which is available as an accessory.
- Manipulating the forks and frame, such as engraving registration numbers, may lead to fracturing the frame and is not permitted.

## Maintenance and inspection

After roughly the **first 200 km**, your **BERNDS-Folding Bike** should have its first inspection made by a bicycle mechanic, during which the following points in particular should be observed:

- The spokes on the road wheels settle into place; for this reason they should be checked and the wheels centred again if necessary.
- We build in high-quality bolts and fixings. Nevertheless, all bolts should be checked to see they are sitting firm.
- Bowden cables tend to stretch so gears and brake settings should be checked.

We should point out that many components on a bicycle are subject to wear and tear and so must be regularly serviced or replaced. These include tyres, brake pads, brake cables, chainwheels and sprockets, wheel rims, handgrips, the saddle, the bearings on wheels and the bottom bracket. Depending on use, these parts must be serviced at regular intervals and replaced when they reach their individual limit of wear.

**Consequently, BERNDS recommends making a regular inspection every 2 000 km, and at least once a year.**

## Instructions for care

- Make sure that the folding seatpost is lubricated and free of dirt. It must be easy to pull out and push in again.
- Frame and attachments: Remove dirt with a soft, damp cloth. Do not use detergents containing solvents or abrasive cleaning products such as scouring powder or steel wool.
- Take care of the chain by cleaning it regularly with a commercial cleaning product and then apply chain lubricant.
- Do not use a high-pressure cleaner under any circumstances!

## Warranty

BERNDS gives a **lifetime warranty** on the **frame**. This applies to the **registered first owner** and on the condition that regular inspections are carried out by a dealer as per the attached maintenance booklet.

**On all other parts** BERNDS gives a warranty as stipulated by legislation for a period of **two years** from the date of purchase. Damage due to natural wear and tear is excluded.

Mounting non-OEM parts, not specified by **BERNDS**, as well as repairs which are faulty, incomplete or not professionally carried out shall extinguish all claims under warranty.

**BERNDS** is not liable for incorrect use, e.g.: overloading, jumps, use in competitions, intentional behaviour and the consequences thereof which is in contravention of the law or of traffic regulations.

We recommend having **repairs and regular inspections** done by a **specialist dealer approved by BERNDS**.

## Supplementary operating instructions

The following parts have their own operating instructions which you will receive separately at the time of purchase:

- Gears:**
- 8-gear derailleur
  - 8-gear hub
  - 3x8-gear DualDrive
  - 14-gear hub

**Manufacturer/Type** \_\_\_\_\_

- Brakes:**
- V-Brake
  - HS33
  - disc brakes

**Manufacturer/Type** \_\_\_\_\_

- Lighting system:**
- bottle dynamo
  - Shimano hub dynamo
  - SON

**Manufacturer/Type** \_\_\_\_\_

## Your BERNDS-Folding Bike at a glance

### Steel frame made in our own factory\*

**Dimensions when folded (all models)** 95x74.5x20cm  
(with forks removed 75x74.5x20cm)

**Rider height** from 140cm up to 210cm

**Step through height** 52cm

**Rear sub-frame length** 40cm

**Top tube length** 60/56cm

**Overall length** 154/150cm     **Payload** 140kg

**Wheelbase** 104/100cm     **Weight** 9,8kg and upwards

### Basic model

**Powder coating** 3 coats (primer, powder colour coating, clear lacquer), standard colour Diamond Black, other RAL colours at extra charge

**Suspension** rear wheel elastomer suspension (3 degrees of hard-ness available), front wheel suspension forks optional

**Bearings** rear swingarm with self-lubricating, sintered brass bushing

**Pedals** high-quality ball-bearing type with non-slip rubber surface (optional fold or push-fit pedals)

**Brakes** V Brake (optional hydraulic wheel rim or disc brakes)

**Tyres** 20" Schwalbe Big Apple 50mm, 2-5 bar (others optional)

**Wheel rims** Aluminium U-profile 24mm 36-hole

**Spokes** 36 Nirosta, 2mm

**Steerer race** 1 1/8 inch sealed (BERNDS special)

**Stem** adjustable angle, 1 1/8 inch, different lengths optional

**Handlebars** Moon (other handlebars optional)

**Seatpost** patented, aluminium 29.8mm

**Saddle** Terry Citta (other saddles optional)

Please contact us for optional Foot stands and Mudguards.

### Models of drive train

**8-gear derailleur** development 2.45m – 7.13m (48 tooth to 11-32), chain drive with freewheel

**8-gear hub** development 2.41m – 7.39m (42 tooth to 15), with back-pedal or freewheel (Premium hub); optional belt drive

**3x8-gear DualDrive** development 1.57m – 8.48m (42 tooth to 11-32), Sram DualDrive, 8-gear combined 3-gear hub

**14-gear hub** development 1.68m – 8.85m (48 tooth to 13), Rohloff SpeedHub; optional belt drive

\*Standard dimensions with 50mm width tyres, made-to-measure bikes deviate from these

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