

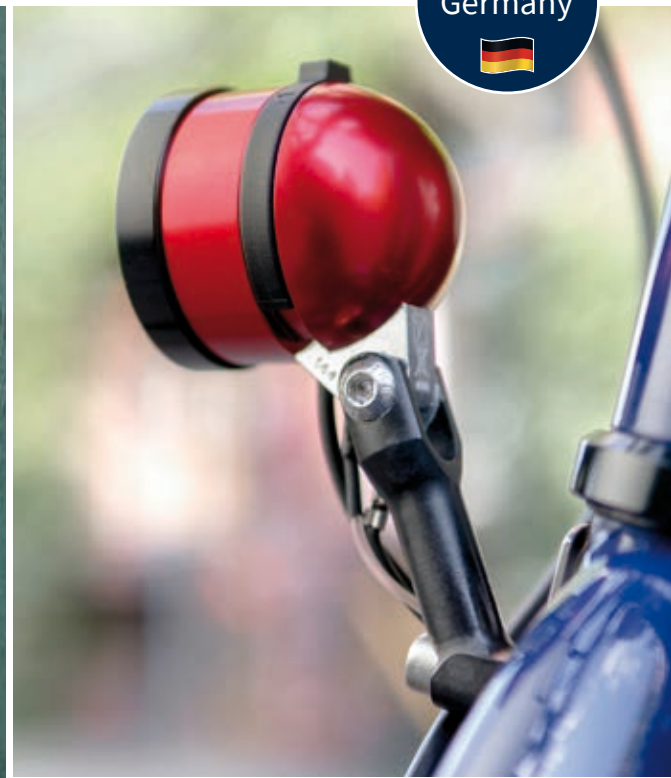


EN

# Bike Lighting

RANGE OF PRODUCTS 2024

made in  
Germany



[nabendynamo.de](https://nabendynamo.de)





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## IMAGES

Many thanks to our partners for providing images:

**Böttcher Fahrräder GmbH** (p.11 bottom)

**Columbus Bikes** (p.13 bottom)

**Santos Bikes** (title picture bottom right)

**Tadenberg GmbH** (p.21 top right)

**Veloheld GmbH** (title picture left)

**Velotraum GmbH & Co. KG** (p.30 bottom right)

**world of mtb Magazin** (p.22 bottom)

## Over 30 Years of Experience

SON stands for hub dynamo lighting of the highest quality. Many thousands hub dynamos and headlights go to customers all over the world every year. We would like to thank our experienced specialist dealers, manufacturers and sales partners who make a very good service possible, with a high number of variants.

**Pioneer Work** – Owner and chief engineer Wilfried Schmidt had the goal as a mechanical engineering student to develop a reliable, all-weather and smooth-running power source for bicycle lighting. His first gearless hub dynamo was created in 1992. With „Schmidts Original Nabendynamo“ he brought his first own brand on the market in 1995.

**Perfection** – Since then Wilfried has been researching and working together with his growing team on the perfection of the hub dynamo lighting system. New dynamo models, standard versions but more and more special versions for MTB, gravel bike, folding bike, cargo bike or recumbent tricycle are developed. The production of LED headlights, rear lights and wiring solutions follows the same high quality standards as the hub dynamos. SON lighting systems provide reliable, long-term maintenance-free and everywhere available electricity for lights and chargers in any terrain.

**Progress** – We are happy to design special versions of our hubs that meet individual applications perfectly well. Another field of work is the development of small generators based on the SON hub dynamo for applications of all kinds. More and more machines, vehicles, construction machines and even playground equipment use the SON generators for self-contained and persistent power supply.





## Made in Germany

All SON products are produced in the southern German town Tübingen with a lot of manual work. A team of almost 50 cycling enthusiasts works here in product development, production and distribution. With modern CNC-machines, turned and milled parts are manufactured with high precision. We design our own machines and systems for special manufacturing processes and in this way we are able to produce even very special parts economically.

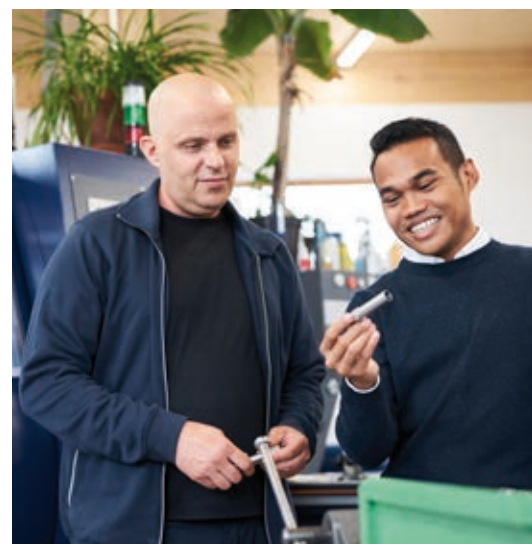
Each hub dynamo and headlight is thoroughly tested during and after assembly. This enables us to guarantee the high quality of our products at all times. We give a 5-year guarantee on all our products.



## Diversity and Good Service

We love bicycles! This is why, in the diversified world of bicycles, we are ready to support small customers. Market niches are important for us. In cooperation with and at the request of bicycle manufacturers special SON hub dynamos are developed or standard dynamos are built in special numbers of spoke whole and colours. Due to a high inhouse manufacturing depth we can produce small quantities even just in time.

We work together with mainly regional suppliers on a long-term basis. Practical experience - that of our customers and our own - always provides impulses for improving our products. Competent advice and our claim to carry out repairs even on very old products originate from our love for bikes.



## Our Philosophy

Our primary objective is to promote the bicycle as best environmentally and people friendly means of transport. Cycling should become safer and more comfortable.

In addition to a perfect, durable and economically successful product, the impact of our work on the environment, employees and customers is important to us. It goes without saying that our products are produced in an environmentally friendly way.



## New Building 2021 / 2024

In 2021, we built a new company location in Kusterdingen, a neighbouring town of Tübingen, for component production and development division. The ecological solid wood construction is exceptional for a company building: With the "Holz 100" construction, the walls on the first floor are completely glue-free, without toxic wood preservatives and are held together by wooden dowels. A special highlight of the building are the solar bricks, which are both solar panels as well as roof sealing. Another building will be built in 2024, which will offer enough space to accommodate the entire company in the future.



# Hub Dynamos

## Electricity for Lighting & Charging

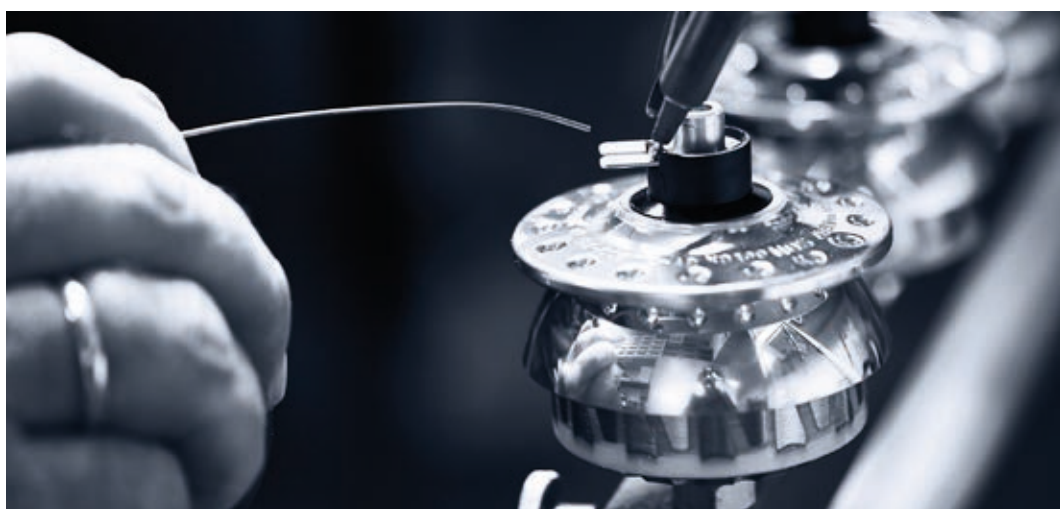
Consequently designed for smooth running and for durability, SON hub dynamos have been undisputed benchmark for many years. The generator is precisely adapted to the intended use and thus efficiently powers headlight, rear light or any charging device. Due to high-end hub technology SON hub dynamos perform with longest possible durability – regardless if it's a standard hub dynamo or a special version for mountain bike, folding bike or trike. Our range of hub dynamos covers more than 100 versions that meet most needs.



- **versions** for various axle types and 2 different generators (SON28 and SONdelux)  
*See p. 9 for details*
- **6 Volts - 3 Watts**  
SON 28 generates 3 Watts nominal power at 15 km/h, whereas SONdelux generates 3 Watts at 20 km/h in 700c/29" wheels (powering lights)
- **conforms German legal regulations StVZO**
- **weight from 350 g** (depending on model):  
Low weight due to a weight-saving generator, not by reducing durability relevant dimensions (e.g. flange thickness)
- **made in Germany | 5 years guarantee**

## High Durability

Usually, a SON hub dynamo will last a bike's complete life cycle. A cheap hub dynamo produces the same power, but it often doesn't take long until it has to be completely replaced due to bearing damage. A durable everyday object is not a luxury but, over the years, an investment that pays off.





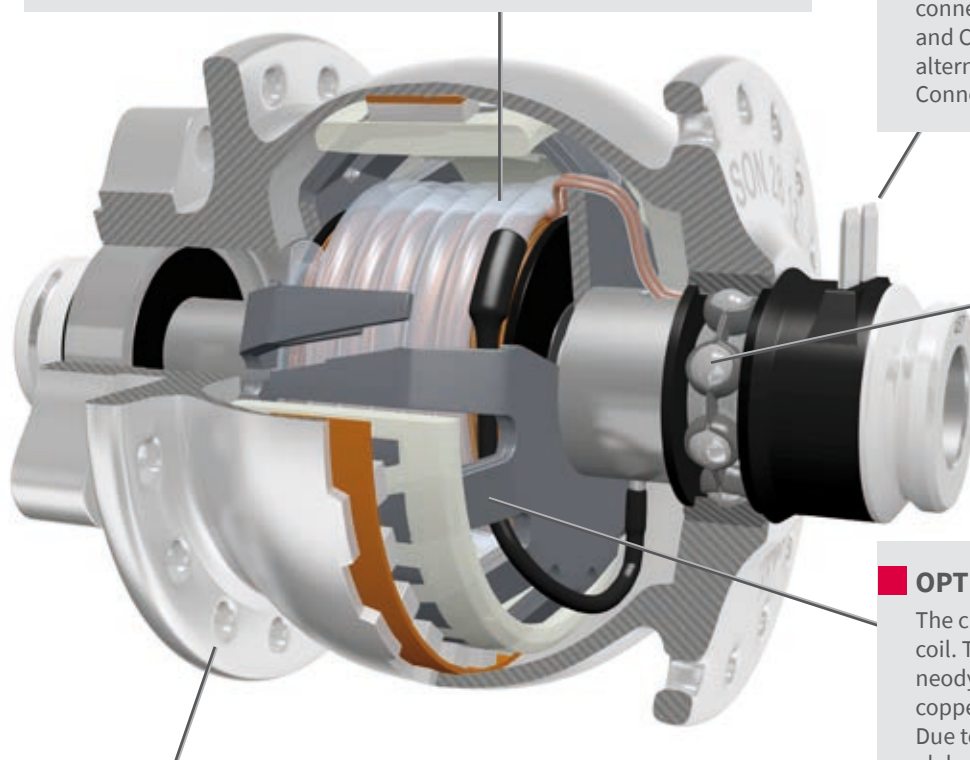


### **PRESSURE COMPENSATION SYSTEM**

The unique pressure compensation system is vital for the long lifetime of the SON hub dynamo. A tube is wound around the electric coil and open on one side and connected to a hole in the axle on the other side. In this way, air can flow from the outside to the inside when cooling down, which prevents negative pressure. This means that existing water is not sucked through the seals and the hub dynamo is optimally protected against corrosion and freezing.

### **SOLID CONNECTIONS**

The contacting of the SON hub dynamo is reliable and solid. Robust 4.8 mm spade connectors, potential-free, are standard. The connection is made either with spade connectors or with SON Coaxial Connector and Coaxial Adapter. Many models are alternatively also available for Self-Connecting System.



### **HIGH-QUALITY BEARINGS**

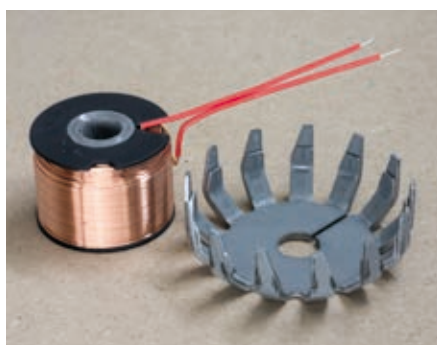
Double-sided sealed bearings from SKF ensure a very long lifetime without maintenance.

### **OPTIMIZED GENERATOR**

The claw pole generator has a central coil. The permanent magnets made of neodymium iron boron are arranged on a copper-plated steel ring on the housing. Due to the sheet metal parts made with elaborate workmanship, the magnetic field is optimally conducted and eddy currents are reduced. This is how the unsurpassed low no-load losses of the SON hub dynamo are achieved.

### **PRECISE SPOKE HOLES**

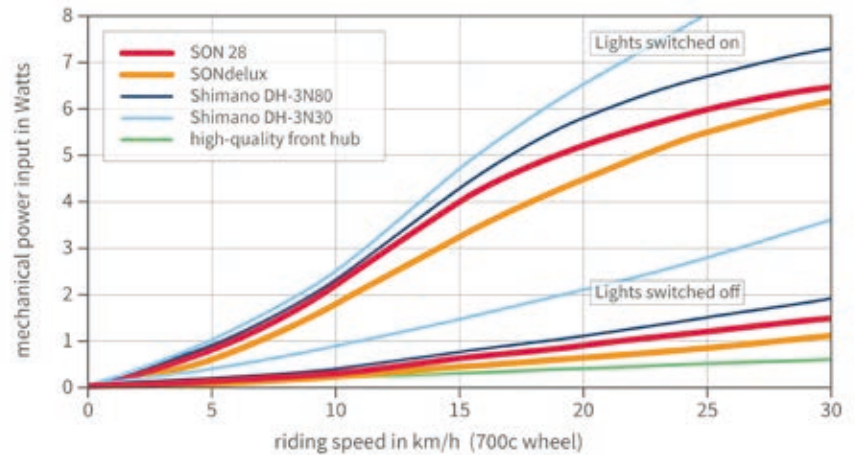
The precise spoke holes with large countersinks are a must for loadable wheels. This is why it will be sufficient to true the wheel only once.



## Efficient & Smooth Running

SON hub dynamos are gearless and highly efficient. This means that with lights switched on they run extremely smoothly and normally you won't feel their input power. With lights switched off there is again significantly less resistance - it is hardly more than on a standard hub without internal generator.

With carefully fabricated sheet metal parts and 100% quality control of the generators each SON hub dynamo is optimized to smooth running. Cheap hub dynamos often have higher no-load losses as well as considerable quality fluctuation.



Two types of generators:

## The difference between SON 28 and SONdelux

### SON 28

SON 28 is designed for high power output at low speed. This is why SON 28 gives a lot of electricity for lights or for powering charging devices even when cycling slowly.

- high power output (even at low speed)
- recommended for use with charging devices

### SONdelux

The SONdelux has a slightly slower rising voltage characteristics, i. e. it needs a slightly higher speed to deliver the same voltage/power as the SON 28.

- extra light
- especially smooth running
- optimized for fast riding and for use in small wheels

## Charging Options

A rising number of cyclists make use of their hub dynamos not only to power their lights. They need to charge any kind of mobile devices. For this purpose, several manufacturers offer chargers that rectify and condition the alternating current of the hub dynamo.

What is possible depends on the charger, the power consumption of the device and the individual driving and usage behaviour. A buffer battery is required for unfavourably programmed devices.

At high riding speed a hub dynamo can deliver significantly more than the rated power of 3 Watts. For charging strong consumers like smartphones we recommend a hub dynamo with SON 28 generator. For convenient connection of a charger the SON Coaxial Junction Box is available (p. 28/41).





## The right hub dynamo for every axle type

### For Standard Forks

p. 10-12

Hub dynamos for 100 mm width and 9 mm axle diameter with and without disc brake mount.



### For Thru Axles

p. 13-15

Hub dynamos for 12 mm or 15 mm thru axles with disc mount, also versions in Boost Standard (110 mm width).



The SON Axle Adapter (p. 22) makes it possible to use a 12/100 mm thru axle hub in a standard 9/100 mm QR fork. Bear your future bike in mind when retrofitting the current one.

### For Fatbikes

p. 17

Hub dynamos with extra large width (135 mm or 150 mm) and disc brake mount.



### For Trikes

p. 16-17

SON XS-M has a stub axle for one-sided fitting. There are many versions for various trikes and trailers.



SON XS-M

### For Folding Bikes

p. 18-19

SON XS is suitable for the Bromton folding bike with small wheels and narrow forks. For semi radial spoke pattern.



SON XS

SON XS klassik

# Hub Dynamos for Standard Forks

(100 mm / Ø 9 mm QR)

Standard dimensions for bicycle forks have been 100 mm width, 9 mm axle diameter for many years. Quick releases and skewers were 5 mm. That is why there is the largest range of SON hub dynamos for this type of fork. SON hub dynamos for rim brakes (non-disc) are symmetric and are of different flange spacing:  
SONdelux: narrow (50 mm)  
SON 28: medium (62 mm)  
SONdelux wide body: wide (68 mm)  
For disc brakes there are center lock mount hubs and 6-bolt mount hubs. The disc hub dynamo housings are narrow (62 mm flange spacing) and slightly asymmetric.

**Delivery includes:** hex skewer (75200 / 75202)



non-disc



## SON 28

non-disc | 440 g | 62 mm flange spacing

polished	32 hole	303202
	36 hole	303602
silver anodized	32 hole	303292
	36 hole	303692
black anodized	32 hole	303212
	36 hole	303612

RRP in GER **269.00 €**

red anodized	32 hole	303222
	36 hole	303622
blue anodized	36 hole	303642
orange anodized	36 hole	303662
light green anodized	36 hole	303672

RRP in GER **279.00 €**





## SONdelux

non-disc | 390 g | 50 mm flange spacing

polished	20 hole	262002
	24 hole	262402
	28 hole	262802
	32 hole	263202
	36 hole	263602
silver anodized	32 hole	263292
	36 hole	263692
black anodized	20 hole	262012
	24 hole	262412
	28 hole	262812
	32 hole	263212
	36 hole	263612

RRP in GER **269.00 €**

red anodized	32 hole	263222
	36 hole	263622

RRP in GER **279.00 €**



## SONdelux wide body

non-disc | 410 g | 68 mm flange spacing

polished	28 hole	262808
	32 hole	263208
	36 hole	263608
black anodized	32 hole	263218

RRP in GER **279.00 €**



disc



## SON 28 *disc 6-bolt*

460 g | 50 mm flange spacing

polished	32 hole	313202
	36 hole	313602
silver anodized	28 hole	312892
	32 hole	313292
	36 hole	313692
	28 hole	312812
black anodized	32 hole	313212
	36 hole	313612

RRP in GER **289.00 €**

red anodized	28 hole	312822
	32 hole	313222
	36 hole	313622
blue anodized	36 hole	313642
orange anodized	36 hole	313662
light green anodized	36 hole	313672

RRP in GER **299.00 €**

## SON 28 *disc center lock\**

430 g | 50 mm flange spacing

polished	32 hole	323202
	36 hole	323602
silver anodized	32 hole	323292
	36 hole	323692
black anodized	28 hole	322812
	32 hole	323212
	36 hole	323612

RRP in GER **289.00 €**

red anodized	32 hole	323222
	36 hole	323622
blue anodized	36 hole	323642

RRP in GER **299.00 €**

## SONdelux *disc center lock\**

400 g | 50 mm flange spacing

polished	32 hole	273202
black anodized	32 hole	273212

RRP in GER **289.00 €**

red anodized	32 hole	273222
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RRP in GER **299.00 €**

\*center lock: center lock rotor mounting standard licensed by Shimano



## Hub Dynamos for Thru Axles

Thru axle hubs were originally developed for mountain bikes. They allow a precise and secure fastening of the wheel and also stiffen the fork. In the meantime, manufacturers of touring bikes, fat bikes and gravel bikes are increasingly using this pioneering technology.

There are SON hub dynamos for 12 mm or 15 mm thru axle in 100 mm standard width for disc brakes. For particularly stiff and stable wheels, there are also variants in Boost Standard (110 mm width).





for 12 mm thru axle



## SON 28 12 disc 6-bolt

for 12 mm thru axle | 400 g

polished	32 hole	413200
black anodized	24 hole	412410
	28 hole	412810
	32 hole	413210
	36 hole	413610

RRP in GER **319.00 €**


## SON 28 12 disc center lock\*

for 12 mm thru axle | 420 g

silver anodized	32 hole	403290
black anodized	24 hole	402410
	28 hole	402810
	32 hole	403210
	36 hole	403610

RRP in GER **319.00 €**

red anodized	28 hole	402820
	32 hole	403220
	36 hole	403620
blue anodized	28 hole	402840

RRP in GER **329.00 €**


## SONdelux 12 disc center lock\*

for 12 mm thru axle | 400 g

silver anodized	32 hole	393290
black anodized	24 hole	392410
	28 hole	392810
	32 hole	393210

RRP in GER **319.00 €**


## SON 28 12 110 disc 6-bolt

for 12 mm thru axle  
Boost Standard (110mm width)

black anodized	24 hole	422410
	28 hole	422810
	32 hole	423210

RRP in GER **339.00 €**


## SON 28 12 110 disc center lock\*

for 12 mm thru axle  
Boost Standard (110mm width)

black anodized	24 hole	432410
	28 hole	432810
	32 hole	433210

RRP in GER **339.00 €**

\*center lock: center lock rotor mounting standard licensed by Shimano



for 15 mm thru axle

**SON 28 15** *disc 6-bolt*

for 15mm thru axle | 460 g

polished	32 hole	333202
silver anodized	32 hole	333292
	36 hole	333692
black anodized	28 hole	332812
	32 hole	333212
	36 hole	333612

RRP in GER **339.00 €**

red anodized	32 hole	333222
	36 hole	333622
blue anodized	32 hole	333242

RRP in GER **349.00 €****SON 28 15 110** *disc 6-bolt*for 15 mm thru axle | 480 g  
Boost Standard (110 mm width)

silver anodized	32 hole	383290
black anodized	28 hole	382810
	32 hole	383210
	36 hole	383610

RRP in GER **339.00 €**

red anodized	32 hole	383220
	36 hole	383620
blue anodized	32 hole	383240

RRP in GER **349.00 €****NEW****SON 28 15 110** *disc center lock\**for 15 mm thru axle | 470 g  
Boost Standard (110 mm width)

black anodized	28 hole	442810
	32 hole	443210

RRP in GER **339.00 €**

\*center lock: center lock rotor  
mounting standard licensed by Shimano

## Hub Dynamos for Trikes

Most trikes have stub axle for one-sided fitting and disc brakes. Axle length, type of mounting and disc rotor positions differ from the various brands, therefore we offer many different variants of the SON XS-M.



### SON XS-M

520 up to 570 g

#### 1 for HP Velotechnik

for slotted axle mount  
axle end Ø 12 x 42 mm

black anodized 36 hole 220611

#### 2 for Anthrotech

axle end Ø 12 x 40 mm

black anodized 32 hole 221211

#### for ICE Trike

axle end Ø 12 x 46 mm

polished 36 hole 223601

#### for Steinrike

axle end Ø 12 x 54 mm

black anodized 32 hole 224211

#### 3 for KMX

axle end Ø ½"

black anodized 32 hole 226210

#### 4 for Christiania Cargo Bike

axle end Ø 12 x 69 mm

polished 36 hole 227601

#### 5 for Aidoo Trailer

axle end Ø 12 x 13.6 mm

polished 36 hole 228601

#### 6 for Catrike

axle end Ø 20 mm

black anodized 32 hole 223211  
black anodized 28 hole 222811

RRP in GER **369.00 €**



## Accessories for SON XS-M



**Male connector  
SON XS-M**

72100

RRP in GER **8.00 €**

**Female connector  
SON XS-M**

72101

RRP in GER **8.00 €**



**Cable splitter for SON XS-M**

72616

RRP in GER **27.00 €**

## Hub Dynamos for Fatbikes

Fatbikes need electricity, too! Their extra wide forks need 135 mm hubs. For those we build SON 28 135. Flange spacing is 68 mm, symmetric. The rotor is positioned at 10.4 mm (standard for front disc brakes) or 15.3 mm (standard for rear disc brakes) away from the dropout. The version for 15 mm thru axle is 150 mm width.



### SON 28 135 VR *disc 6-bolt*

135 mm width | 530 g  
standard for front disc brakes (10.4 mm)  
axle end Ø 9 mm

black anodized	32 hole	313219
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RRP in GER **319.00 €**



### SON 28 135 *disc 6-bolt*

135 mm width | 530 g  
standard for rear disc brakes (15.3 mm)  
axle end Ø 10 mm

silver anodized	32 hole	313298
black anodized	32 hole	313218

RRP in GER **319.00 €**



### SON 28 15 150 *disc 6-bolt*

for 15 mm thru axle | 150 mm width  
530 g

black anodized	32 hole	373210
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RRP in GER **389.00 €**

## Hub Dynamos for Folding Bikes

There is more to a folding bike like the Brompton than just a practical means of transportation. They are chic, represent a life style and you can customize them individually. There are SON XS hubs for Brompton folding bikes with 74 mm fork width and 8 mm axle diameter. Since 2013, SON XS has a smaller housing for straight pull spokes, which are slightly angled during semi radial spoking in the wheel.

Three standard colours as well as various à la carte colours are available. For lovers of the old design the SON XS klassik is still available.

standard

à la carte



### SON XS for Brompton

semi radial | 350 g | width 74 mm  
axle end Ø 8 mm

polished	20 slots	342072
	28 slots	342872
silver anodized	20 slots	342092
	28 slots	342892
black anodized	20 slots	342062
	28 slots	342862

RRP in GER **249.00 €**

à la carte	28 slots	342882
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RRP in GER **289.00 €**



### SON XS klassik for Brompton

400 g | width 74 mm | axle end Ø 8 mm

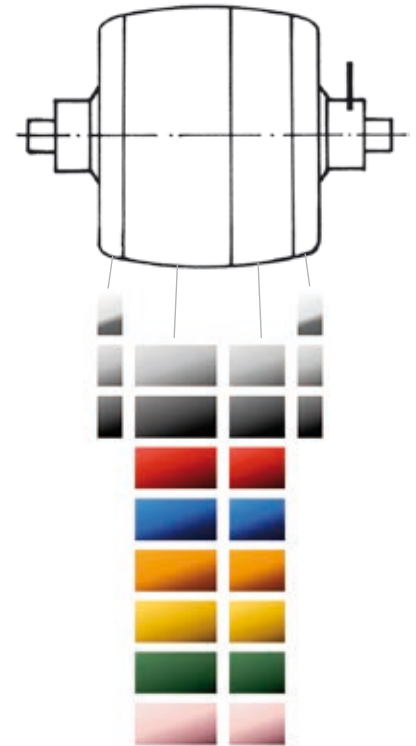
polished	28 hole	232852
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RRP in GER **249.00 €**



## SON XS à la carte

Similar to the varied colour selection of the Brompton folding bikes, the SON XS can be individually configured. The side parts can be selected in polished as well as silver and black anodized. For the two centre parts there is a choice of anodized colours: silver, black, red, blue, orange, gold, dark green and pink. Create your personal Brompton with a SON XS hub and Edelux II headlight in matching colours and an elegant SON Rear Light.



## Semi Radial Spoke Pattern

An extra compact and elegant design is realized by using straight pull spokes. A purely radial spoke pattern would be critical with hub dynamos, as the pole sensitivity of the generator may cause audible vibrations of the spokes. To avoid vibrations we developed the semi radial spoke pattern: we positioned the hub slots for the spokes in such a way that, when lacing spokes, the straight pull spokes bend slightly as soon as they are tensioned. We build such wheels with 28 spokes or just 20 spokes arranged in parallel at the rim.

*See Brompton wheels on p. 20*



## Wheels

In Germany we offer a wide selection of hand-built wheels with rims 26" to 29".

Especially for Brompton folding bikes, we prefer to supply finished wheels, as the spoking of the semi radial SON XS hub dynamos requires some experience. The new Brompton wheels with 20 spokes and specially drilled rims from Ryde are lighter and even more elegant than the wheels with original Brompton rims.



### Wheel for Brompton 20 Spokes

Rim: Ryde Snyder  
DB spokes, colour same as on rim  
Nipples: silver  
Weight: 730 g

silver rim	SON XS polished	43170
	SON XS silver anodized	43172
	SON XS black anodized	43171

RRP in GER **319.00 €**

black rim	SON XS polished	43180
	SON XS silver anodized	43182
	SON XS black anodized	43181

RRP in GER **329.00 €**

### Wheel for Brompton 28 Spokes

Rim: Brompton Original  
DB spokes, colour same as on rim  
Nipples: silver  
Weight: 770 g

silver rim	SON XS polished	43140
	SON XS silver anodized	43110
	SON XS black anodized	43141

RRP in GER **319.00 €**

silver rim	SON XS à la carte	43113
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RRP in GER **359.00 €**

black rim	SON XS polished	43150
	SON XS silver anodized	43152
	SON XS black anodized	43151

RRP in GER **329.00 €**

black rim	SON XS à la carte	43116
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RRP in GER **369.00 €**



for Brompton Bikes

Our SON Easy Wheels provide perfect rolling characteristics. They ensure your Brompton stays maneuverable when folded. The wheels are CNC machined from aluminum and fitted with high quality industrial bearings and a durable tread.



## SON Easy Wheels 60

For Brompton folding bike  
Set of 2 wheels  
Ø 60 mm

uncoated  
black anodized

74003

74004

RRP in GER **54.00 €**



NEW

## SON Easy Wheels 66

For Brompton folding bike  
Set of 2 wheels  
Ø 66 mm

black anodized

74005

RRP in GER **59.00 €**

Tools for wheel building



The nipple seat gauge is our elegant and simple solution for professional wheel building. It was engineered in-house and allows to easily determine the rim diameter (nipple seat diameter) through simple handling and precise measurement. Just enter this value in our spoke calculator and you will get the required spoke length.

[www.nabendynamo.de](http://www.nabendynamo.de) – Service – Spoke Length Calculator

## SON Nippleseat Gauge

black anodized

72910

RRP in GER **95.00 €**



## Accessories for Hub Dynamos



### Front hex skewer

Hex skewers make a good compromise between quick releases and locking skewers. Our skewers for 100 mm width have steel bolts of 12.9 hardness category at SW 5 mm and a weight of 30 g.

for 100 mm width	silver	75200
for 100 mm width	black	75202

RRP in GER **7.00 €**

for Brompton, 74 mm width, stainless steel nut and bushing	silver	75204
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RRP in GER **10.00 €**



### Spokes

Spokes available on request.  
To find out about spoke length see:  
[www.nabendynamo.de](http://www.nabendynamo.de) – Service – Spoke Length

### Caps

for SONdelux disc center lock / SON 28 disc center lock (9 mm)

polished	75850
black anodized	75851
red anodized	75852

RRP in GER **11.00 €**



### Axle-Adapter 12/9 mm QR

makes it possible to use a 12 mm thru axle hub in a standard 9/100 mm QR fork, 19 g

black anodized	75230
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RRP in GER **18.00 €**





# Join our Team!





# Headlights



All SON headlights are optimized for durability, so we offer 5 years guarantee. The solid design housing looks noble and withstands even a commuter's rough treatment. Just as robust are the socket, mineral glass lens and easy-to-use switch. The SON Coaxial Cable safely conducts electricity. Good sealing and potted electronics prevent internal damage.

- **High Durability**  
with potted electronics, robust housing and SON Coaxial Cable
- **Optimal LED-cooling** with aluminium-housing and copper heat sink
- **Optimal illumination** with „IQ-TEC“ mirror from Busch & Müller
- **conforms with German legal regulations StVZO**
- **made in Germany | 5 years guarantee**

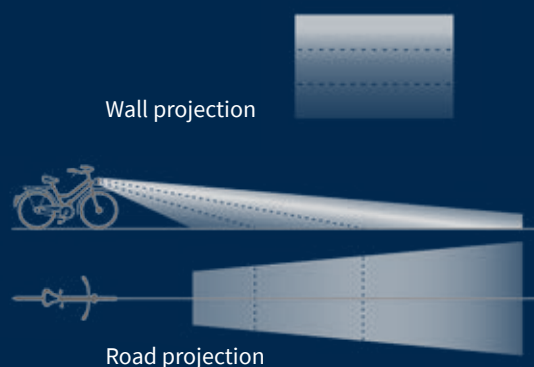
## Lumen or Lux?

Headlight manufacturers state the brightness of their products in Lumen or Lux. The Lumen value of an LED indicates the total amount of light produced or emitted (the luminous flux). On the other hand, a Lux value indicates the brightness of the brightest beam (max. illuminance, measured as standard at a distance of 10 m). At SON, we prefer to name the illuminance (Lux value). The problem with Lumen values is that they are very difficult to measure and therefore often only the values of the LED are given under optimal conditions. This leads to high and unrealistic data of some manufacturers. In addition, it is completely unconsidered where the light shines to.

## Optimum Illumination

But even the lux value alone does not say much about a headlight. Much more important is what the entire light field looks like that hits the road. While the laboratory likes to work with wall projections, the lighting of the road from a bird's eye view or driver's perspective is more descriptive. The requirements vary depending on the application, so it is advisable to give it a try.

The ideal light beam is layered. On the wall projection there is a very bright stripe at the top edge (high Lux value) with sharp cut-off line. To the bottom the light continuously becomes darker. Correctly adjusted, such a headlight illuminates quite evenly with very wide views.



# Headlights for Hub Dynamos

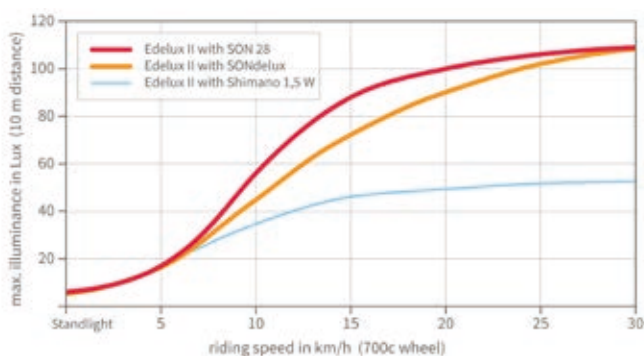
Edelux II



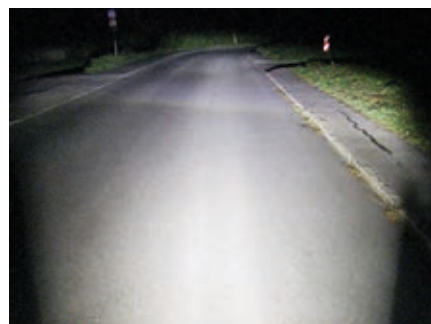
## Wiring

For connection to the hub dynamo, the Edelux II has a coaxial cable which is soldered and potted in the spotlight. The cable is either already fitted for connection to a SON hub dynamo or the connectors are separately enclosed. The Edelux II can also be easily connected to other hub dynamos.

The rear light is connected to the Edelux II with a spade connector and a ring terminal for ground. The result is a particularly robust and exchange-proof connection. Ready-made rear light cables are available for common rear lights (p. 39). On a 6Volt - 3Watt hub dynamo the Edelux II may be operated without a rear light.



*Illumination (in Lux) with a choice of hub dynamos*



*Edelux II cyclist's field of vision*

Edelux II distributes light in a wide and very long and even light field. It has a sharp cut-off line to the top as required for road traffic.

## Edelux II

### More Light, Improved Light Distribution

Elegant and reduced to the essential: a wide light beam, evenly distributed from near to far end provides best view on dark roads. Edelux II has a high-intensity LED and distributes light perfectly well on the road surface using the Busch & Müller premium mirror. The light beam is very wide, focusses well in the distance and distributes evenly in front of the bike. This kind of light distribution is ideal on dark roads as well as in road traffic.

The perfect cooling of the LED and the non-reflecting lens increase brightness to more than **100 Lux**. The Edelux II has a very bright capacitor standlight and an automatic switch-on (sensor). A special feature on the Edelux II is its extraordinary robust construction. Its housing is turned and milled of aluminium. The magnetic switching ring is easy to use, the coaxial cable is elegant and extremely robust.

- **high light output** thanks to optimal LED-cooling with copper heat sink and aluminium-housing
- **easy handling** with magnetic switch and automatic light sensor
- **long lifetime** with potted electronics, robust housing and coaxial cable
- **bright standlight**
- **conforms with German legal regulations StVZO**
- **made in Germany | 5 years guarantee**



Standard Edelux II are designed to be powered by hub dynamos with 6Volt AC output. Even at low speed you will have uniform and flickering-free light. Illuminance increases to more than 100Lux at high speed. Its standlight is so bright that it is not only suitable for being seen, and switches off automatically after 4 minutes.

Weight: 85 g

#### Delivery includes:

Bracket Edelux (75520) and Reflector (75760)





## Edelix II

### 140 cm cable:

connectors separately enclosed

### 60 cm cable:

connectors fitted, for fork mount

### 36 cm cable:

connectors fitted, for Brompton,  
with Bracket for Brompton (75504)

polished	140 cm	681406
	60 cm	680605
	36 cm	680305
silver anodized	140 cm	681496
	60 cm	680695
	36 cm	680395
black anodized	140 cm	681416
	60 cm	680615
	36 cm	680315

RRP in GER **169.00 €**



red anodized	140 cm	681426
	60 cm	680625
	36 cm	680325
blue anodized	140 cm	681446
	60 cm	680645
	36 cm	680345
orange anodized	140 cm	681466
	36 cm	680365
dark green anodized	140 cm	681456
	36 cm	680355
gold anodized	140 cm	681436
	36 cm	680335
purple anodized	140 cm	681386
light green anodized	140 cm	681476

RRP in GER **179.00 €**



## Edelix II *with Coaxial Adapter*

with SON Coaxial Connector fitted,  
SON Coaxial Adapter included

polished	100 cm	681009
	60 cm	680609
silver anodized	100 cm	681099
	60 cm	680699
black anodized	100 cm	681019
	60 cm	680619

RRP in GER **189.00 €**



## Edelix II *with Coaxial Junction Box*

with Bracket Edelix long, black (75523)

Suitable Parts for charging device (p. 40 / 41):  
SON Coaxial Cable Connection for B&M charging device  
SON Coaxial Cable with Coaxial Connector Male fitted  
SON Coaxial Connector Male for soldering

### with 140 cm Coaxial Cable

spade connectors for SON hub dynamo separately enclosed

black anodized	681416A
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RRP in GER **189.00 €**

### with 60 cm Coaxial Cable and SON Coaxial Adapter

cable with SON Coaxial Connector Male fitted

black anodized	680619A
----------------	---------

RRP in GER **209.00 €**





upside down



## Edelux II upside down

**Delivery includes:**  
w/o bracket, w/o reflector

switched, rear light connection on threaded bushing,  
w/o automatic light senso

polished	140 cm	680000
black anodized	140 cm	680010

RRP in GER **199.00 €**

w/o switch, for use with separate switch,  
w/o automatic light senso

polished	w/o cable	680001
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RRP in GER **189.00 €**

## Headlights for Pedelecs

The new Edelux DC headlights are approved for pedelec systems (up to 25 km/h) with light output between 5 and 15 Volts. Due to higher power input, 5 to 6 Watts, they achieve up to 170 Lux brightness. The particularly uniform illumination enables best visibility both in the near field as in far distance.

- **Water- and dust protection** due to a membrane ventilating system
- **New connecting technology** for different cables:  
The cable can be easily and directly clamped to the headlight, without stripping.
- **Large-area lightfield** with „IQ-TEC“ mirror from Busch & Müller
- **Optimal LED-cooling** with aluminium-housing and copper heat sink







NEW

## Edelux DC 170

For 5 to 15 volts direct current (DC)  
6 Watts | 170 Lux



black anodized	630010
uncoated	630080

RRP in GER **199.00 €**

red anodized	630020
blue anodized	630040
orange anodized	630060
light green anodized	630070

RRP in GER **209.00 €**



## Edelux DC 150

**For Neodrives V2 or V5 battery**  
For 5 to 15 volts direct current (DC)  
5 Watts | 150 Lux

black anodized	630010N
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RRP in GER **199.00 €**

red anodized	630020N
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RRP in GER **209.00 €**

For older pedelecs and for lovers of the polished design Edelux II DC (for 6 to 75 volts) is still available



## Edelux II DC for 6 to 75 Volts

For 6 to 75 Volts DC  
3 Watts | 90 Lux  
With coaxial connection cable (140 cm), switch and 6 Volts output for rear light.

### Delivery includes:

Bracket Edelux (75520) and Reflector (75760)

polished	140 cm	681403
silver anodized	140 cm	681493
black anodized	140 cm	681413

RRP in GER **179.00 €**

## SON Rear Light

SON Rear Light is of minimal dimensions. This way it fits where common rear lights with integrated reflectors are either lack a suitable mounting position or designwise don't fit. The housing is made of anodized aluminium, lens and electronics are potted. The SON Coaxial Cable for headlight connection is firmly fixed inside the housing (cable 190 cm, bare ends, connectors separately enclosed).

- **long lifetime** due to solid aluminium housing and coaxial cable
- **protected against water ingress and mechanical impact** by potted electronics
- **with standlight**
- **conforms German legal regulations StVZO**
- **made in Germany | 5 years guarantee**



### rack mount

50 mm screw spacing | 20 g (weight w/o cable)

black anodized	clear lens	69152
	red lens	69162
silver anodized	clear lens	69172
	red lens	69182

RRP in GER **64.00 €**

red anodized	clear lens	69132
blue anodized	clear lens	69142
orange anodized	clear lens	69102
light green anodized	clear lens	69112

RRP in GER **74.00 €**

### seat post mount

Ø 26 up to 31.8 mm | 35 g (weight w/o cable)

black anodized	clear lens	69252
	red lens	69262
silver anodized	clear lens	69272
	red lens	69282

RRP in GER **79.00 €**

red anodized	clear lens	69232
blue anodized	clear lens	69242
orange anodized	clear lens	69202
light green anodized	clear lens	69212

RRP in GER **89.00 €**





### mudguard mount

high mounting position (25 degree) | 40 g (weight w/o cable)

polished / red lens	narrow profile	69316
polished / red lens	wide profile	69326
black anodized / clear lens	narrow profile	69335
black anodized / clear lens	wide profile	69345
black anodized / red lens	narrow profile	69355
black anodized / red lens	wide profile	69365

RRP in GER **89.00 €**



### rack tube mount

Tube Ø 10 mm | 40 g weight w/o cable)

black anodized / red lens	69662
silver anodized / red lens	69682

RRP in GER **79.00 €**



### seat clamp

50 g weight w/o cable)

black anodized / red lens	31,8 mm	69762
black anodized / red lens	34,9 mm	69862

RRP in GER **99.00 €**





## Rear Lights for Pedelecs

SON Rear Light DC for Pedelecs can be connected directly to electric bike systems with output from 6 Volts up to 12 Volts direct current (DC).

With electric bike systems using 6Volts direct current, SON Rear Lights for dynamo-powered lighting may be used likewise.



### SON Rear Light DC for 6-12 Volts

#### rack mount

50 mm screw spacing | 20 g (weight w/o cable)

black anodized	red lens	69462
	clear lens	69452
silver anodized	red lens	69482

RRP in GER **64.00 €**

red anodized	clear lens	69432
blue anodized	clear lens	69442

RRP in GER **74.00 €**



#### seat post mount

Ø 26 up to 31.8 mm | 35 g (weight w/o cable)

black anodized	red lens	69562
	clear lens	69552
silver anodized	red lens	69582

RRP in GER **79.00 €**

red anodized	clear lens	69532
blue anodized	clear lens	69542

RRP in GER **89.00 €**

## Accessories for Headlights



#### Reflector

Busch + Müller 313 / 3Z  
69190

RRP in GER **5.90 €**



#### Adapter

for rack mount  
for reflector 313 / 3Z

flat	69191
stepped	69192

RRP in GER **4.90 €**

## Accessories for Headlights



### White Reflex Reflector

for Edelux and Edelux II

75760

RRP in GER **6.90 €**



### Switching Ring

for Edelux and Edelux II

75611

RRP in GER **2.50 €**

## Headlight Brackets

Solid attachment and precise adjustment are vital for bicycle headlights. Edelux II mounts with a 6 mm bolt at its aluminium socket. We offer metal headlight brackets from various manufacturers for mounting position either at the fork crown or on the handlebars. We developed own models (Bracket delux 2D / 2D long / 3D) for mounting on the handlebars with tightening straps by Rixen & Kaul. They perfectly match the shape and surface of the Edelux II.

### Dimensions

The specified dimensions (length/height) are measured from the bolt of the fork head to the bolt of the headlight, vertically or horizontally in relation to the contact surface on the fork. The “Bracket Edelux” and “Bracket Edelux long” are made of 4 mm stainless steel wire and can be flexed appropriately.



### Bracket Edelux

36 x 50 mm (LxH)

stainless

75520

RRP in GER **4.40 €**

black

75521

RRP in GER **5.80 €**



### Bracket stainless

39 x 62 mm (LxH)

75500

short, 47 x 40 mm (LxH) 75507

RRP in GER **3.00 €**



### Bracket Edelux long

58 x 49 mm (LxH)

stainless

75522

black

75523

RRP in GER **5.80 €**



### Bracket stainless Canti

6 x 46 mm (LxH)

75501

RRP in GER **3.50 €**



### Bracket for Brompton

stainless, 53 x 18 mm (LxH)

75504

RRP in GER **3.90 €**

NEW



### Bracket milled *short*

Alu 7075 T6, incl. bolts,  
37 x 40 mm (LxH),

black anodized

75620

RRP in GER **25.00 €**

NEW



### Bracket milled *long*

Alu 7075 T6, incl. bolts,  
45 x 52 mm (LxH),

black anodized

75630

RRP in GER **27.00 €**



### Bracket milled (remaining stock)

Alu 6061 T6, incl. bolts,  
33 x 37 mm (LxH),  
mass contact with ring terminal not  
possible

black anodized

75530

RRP in GER **25.00 €**





brackets for handlebar mount



### Bracket deluxe 2D *short*

Aluminium milled,  
for handlebars up to 31.8 mm,  
rotatable around 2 axis

polished	75531
black anodized	75532

RRP in GER **27.00 €**



### Bracket deluxe 2D *long*

Aluminium milled,  
for handlebars up to 31.8 mm,  
rotatable around 2 axis

polished	75533
black anodized	75534

RRP in GER **27.00 €**

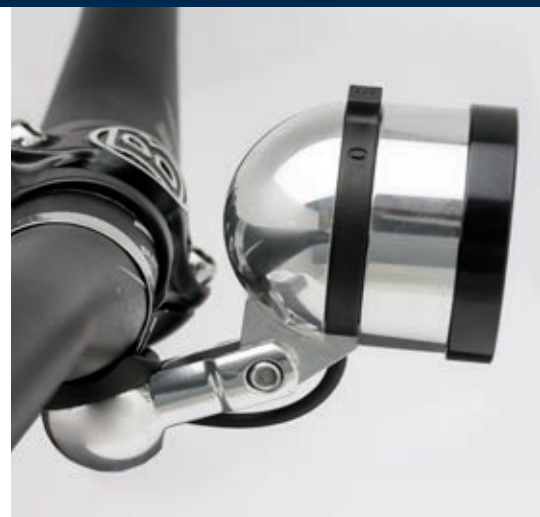


### Bracket deluxe 3D

Aluminium milled,  
for handlebars up to 31.8 mm,  
rotatable around 3 axis

black anodized	75541
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RRP in GER **35.00 €**



### Tensioning strap

Accessorie  
for Bracket deluxe 2D/3D

130 mm (standard)	75530
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RRP in GER **2.00 €**

150 mm	75538
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RRP in GER **3.00 €**

# Wiring

## SON Coaxial Cable

It is only through the wiring that a high-quality hub dynamo and the corresponding lights become a reliable lighting system. The SON Coaxial Cable was specially developed for this purpose and has been proven for decades.

- sleek round design with 2 poles
- solid sheath
- frost- and UV-resistant
- free of PVC



## Crimping

SON hub dynamos have robust 4.8mm spade connectors. These crimp connectors conform to the common technique for connections on high-end bike lighting systems. But our 4.8mm connectors are more solid and easier to use compared to standard 2.8mm connectors.

Well-crimped, shrunk over and slightly greased the result is a very reliable connection which is proven in rough everyday use.



## Professional Wiring Tools

Suitable tools make wiring much easier. We provide high-quality tools for SON Coaxial Cable and common wires.



### Crimping Tool

for spade connectors and ring terminals

72900



### Automatic Wire Stripper

special for coaxial cable, Knipex No. 12 21 180

72903



### Crimping Tool

for spade connectors and ring terminals, Knipex No. 97 52 14

72904



### Side Cutters Super-Knips

125 mm, Knipex No. 78 61 125

72905



## SON Coaxial Cable

2 x 0.5 mm<sup>2</sup>, outer Ø 3 mm, polyurethane, black



5 m	72005
10 m	72010
100 m	72011

RRP in GER **2.60 € / m**



### Cable for Rear Light

190 cm cable, to connect a rear light with Edelux II headlight

connections for rear light fitted	72090
connections for rear light separately enclosed	72091

RRP in GER **12.80 €**

## Crimp Connectors

brass tin-plated, uninsulated



### Spade female 2.8 x 0.5 mm

Pack of 100 pcs	72121
Pack of 500 pcs	72125

### Spade male 2.8 x 0.5 mm

Pack of 50 pcs	72135
Pack of 100 pcs	72131



### Spade female 4.8 x 0.8 mm

Pack of 100 pcs	72141
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### Piggy-back spade 4.8 x 0.8 mm

Pack of 20 pcs	72142
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### Spade male 4.8 x 0.8 mm

Pack of 20 pcs	72152
----------------	-------



### Ring terminal 3 mm

Pack of 50 pcs	72235
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### Ring terminal 5 mm

Pack of 50 pcs	72255
Pack of 100 pcs	72251

### Ring terminal 6 mm

Pack of 50 pcs	72265
Pack of 100 pcs	72261

### Terminal adapter 2.8 x 0.5 mm

for M6, stainless

Pack of 20 pcs	72272
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### Box with Connections

spade connectors, heat shrink tubing and ring terminals

72800

RRP in GER **54.00 €**

### Heat shrink tubing

Heat shrink tubing 3:1 polyolefine, black

3.2 x 24 mm	Pack of 100 pcs	72331
3.2 x 32 mm	Pack of 100 pcs	72334
3.2 x 500 mm	Pack of 10 pcs	72332
4.8 x 24 mm	Pack of 100 pcs	72341
4.8 x 500 mm	Pack of 10 pcs	72342



# SON Coaxial Connector System

## Appropriate Wiring

Solid coaxial wiring solutions has always been available from SON. The lately developed SON Coaxial Connectors complete the system. They are especially comfortable and enable wiring of all kinds. Wherever requested, the SON Coaxial Connector can be used to provide a solid and yet convenient separation.



### Connector Male

for soldering

72600

RRP in GER **7.40 €**



### Connector Female

for soldering

72601

RRP in GER **7.40 €**



### Connector Set – Male and Female

for soldering

72602

RRP in GER **14.50 €**

### EASY TO USE

SON Coaxial Connectors are rotationally symmetric: It has never been easier to plug and unplug connectors.

### ELEGANT

SON coaxial connectors will hardly be noticed due to the small outer diameter and joint to the coaxial cable.

### SOLID

Reliable connections with high contact pressure. Soldering ensures high tensile strength and permanent electrical contact.

### INDIVIDUAL

Cables are available ready-made with connectors either fitted or as separate parts for customized wiring.

## SON Coaxial Adapter

The SON Coaxial Adapter allows to use the SON Coaxial Connector on a hub dynamos. When taking out the front wheel you can plug and unplug the headlight cable easily.



### SON Coaxial Adapter

incl. Coaxial Connector Male for soldering

72630

RRP in GER **24.00 €**





## SON Coaxial Junction Box

### Easy connection with a charging device

The SON Coaxial Junction Box was developed for permanent or occasional connection of a charging device with a hub dynamo lighting system. It is mounted on the headlight cable in an easily accessible position. A second cable to the dynamo connectors is no longer necessary.



### SON Coaxial Junction Box with Coaxial Connector Male

80 cm cable,  
incl. Coaxial Connector Male for soldering

cable w/o connectors 72631

RRP in GER **24.00 €**

cable ready-made with  
SON Coaxial Connector and  
Coaxial Adapter 72635

RRP in GER **48.00 €**



### SON Coaxial Cable with Coaxial Connector Male fitted on one side

60 cm cable 72606

RRP in GER **12.00 €**

140 cm cable 72607

RRP in GER **13.00 €**



### SON Coaxial Cable Connection for B&M charging device

80 cm cable, to connect a B&M  
charging device with SON Coaxial  
Junction Box

72605

RRP in GER **20.00 €**



### Box with Assortment of Coaxial Connectors

72650

RRP in GER **220.00 €**



### Soldering Device

72906

RRP in GER **42.00 €**

## Self-Connecting System



Al fork with special SL dropout and integrated contact parts

insulated connection ring

### SL Hub Dynamos

Almost every SON hub dynamo is available as SL version without connectors.

As an alternative to the various plug connections on the hub dynamo, SON offers a particularly elegant solution: Self-Connecting System (SL). The contact areas on hub and forks themselves make the connections. Ground connection is made at one fork end, phase connection at the other fork end with a contact plate insulated by an insulating plate in the dropout.

The SL system requires a specially reworked fork. This means retrofitting is not possible. We offer a wide range of standard 9 mm dropouts, 12 mm and 15 mm thru axle fork ends as well as suitable contact parts for framebuilders who build steel forks. A few manufacturers offer forks pre-fabricated with SL dropouts in series.

The most demanding bicycle manufacturers already use the SL system on their bicycles.

See SL products at [www.nabendynamo.de](http://www.nabendynamo.de)  
– Products – Self-Connecting System



### Contact Parts

Insulating plate and contact plate are placed in 3 boring holes in the right dropout.



### Dropouts

stainless steel,  
for standard 9 mm forks,  
12 mm and 15 mm thru axle forks



### Tools

Reworking standard 9 mm forks to take up SL parts is possible with a special tool set.



# SON HUB DYNAMO CONNECTIONS



## ■ Spade Connectors

the proven and reliable connection technology with 4.8 mm spade connectors



## ■ SON Coaxial Connectors

convenient plugging in and plugging out enable SON Coaxial Adapter and Coaxial Connector



## ■ Self-Connecting System

particularly elegant, plugless contacting via the contact surfaces of the fork



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