

SON Schmidts Original Nabendynamo

new



SON 28



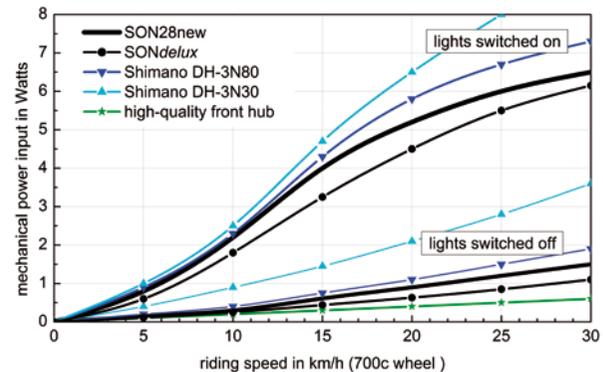
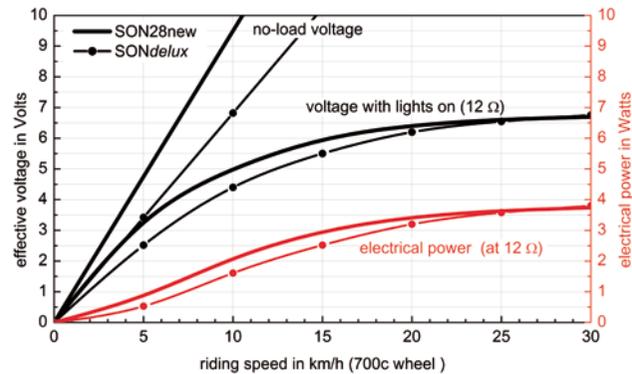
SON 28 disc



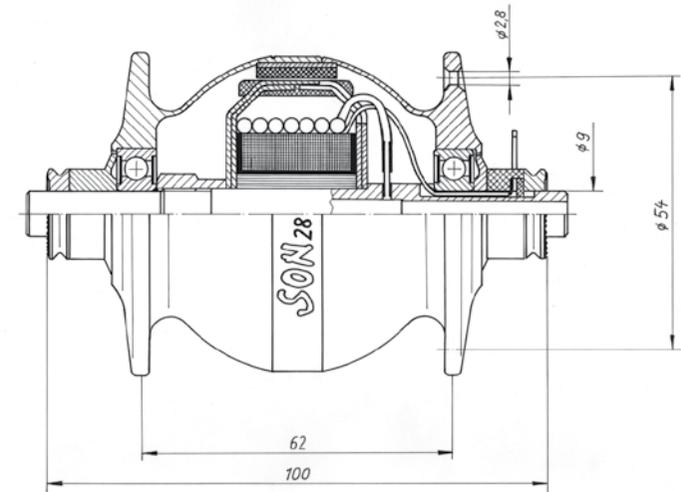
SON 28 means „Schmidts Original Nabendynamo“ (Schmidt’s original hub dynamo) with general approval for wheel sizes up to 700c (29“). The new model produced since 2011 is similar to the SONdelux regarding build and looks. Flange and bearing distance (of the non-disc version), however, are much larger, so that it is the big brother of SONdelux not only electrically, but also mechanically.

Rated voltage and output are already achieved at a riding speed of approx 20% less than in the SONdelux. Therefore, the SON 28 is recommended if a lot of light is needed at low speeds or when other devices are to be operated. Easy running (with and without light) characteristics are between the SONdelux and the best competitor models.

Its weight could be reduced by approx. 25% as compared to the SON 28 klassik. Disc brake versions with 6-hole and center-lock-attachment are available.



Technical data SON 28



Electrical power: 6 V / 3 Watts according to the German road traffic regulations StVZO

German mark of conformity: K834 for 16" to 29"

Efficiency: 65% at 15 km/h in the 700c-wheel

No-load power input: 0.5 Watts at 15 km/h in the 700c-wheel

Magnets: Neodym iron boron, 26 poles

Contacts: 4.8 mm flat spades, 2-pin, to connect without ground connection (special design plugless)

Axle: hollow axle Ø 10 mm, strain-hardened stainless steel (center lock®: Aluminium 7075 T6)

Bearings: Deep groove ball bearing 629 2RSH

Hub shell: Aluminium 6082 T6, polished or black anodised

Sealing: Alloy dust shields, rubber lip seals and pressure compensation system

Spoke drillings: 32, 36

Weight: 440 g (6-hole: 460 g, center lock®: 430 g)

Warranty: 5 years

The idea of integrating the bicycle dynamo into the wheel hub is ancient. But it took until 1992 before Wilfried Schmidt was able to present a gearless construction that produces the required output of 3 Watt at a total weight of only 650 g. Serial production of Schmidt's original hub dynamo (SON) started in 1995, together with a Lumotec halogen lamp equipped with a switch and coaxial cable. Lumotec halogen headlight.



Since then, the SONs have become increasingly small, light and easier-running. Permanent durability was improved considerably in 2002, when the pressure compensation system was introduced to prevent water from penetrating to the interior of the hub. The SON 28 klassik, built 70,000 times between 2000 and 2011, has thus become a striking example for solid and long-lived bicycle technology.

The rapid further development of LED technology enabled a special success in 2009: the SONdelux and Edelux systems were StVZO-approved. This system produces more light than all previously built dynamo lighting systems – at lower output.



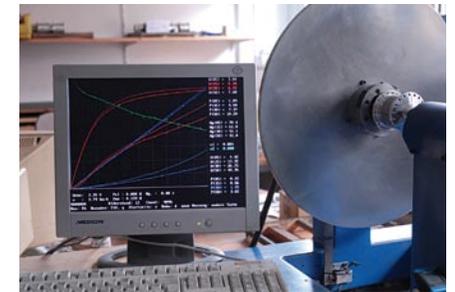
In 2008, Wilfried Schmidt Maschinenbau received the „Goldene Ritzel“ by the VSF as an award for pioneering work in finding a solution for the bicycle lighting problem.



At the heart of the densely populated French quarter of Tübingen, lots of manual labour gives birth to wheel-hub dynamos and LED lamps of the highest quality.



We produce precise rotating turned and milled parts in-house in state-of-the-art CNC machines, enabling us to produce a great number of versions quickly.



Every single dynamo is thoroughly measured on the test bench. Power input and output must not exceed narrow thresholds. If a device fails to perform as required, it will be taken apart for troubleshooting.



We take practical experience just as seriously. Our own, that of friends and customers. Perfect products don't just fall from the sky!