

FREQUENTLY ASKED QUESTIONS – ANSWERED!

BUILDING A ROHLOFF WHEEL

Who is the best person to build my Wheel

The Rohloff SPEEDHUB is a very easy hub to build in to a wheel.

It is very important to following the directions in the manual.

When choosing a wheel builder it is best to use some one that has built Rohloff Wheels in the past. The hub lacing pattern and tension are different to a standard wheel.

The spokes are a two or one cross pattern.

The Spokes tension is even and a lot higher than a standard wheel



Rims for the Rohloff SPEEDHUB 500/14

The Rohloff SPEEDHUB 500/14 is only available in a 32 or 36 spoke version.

The ideal rims for touring bikes with rim brakes or disc brakes are triple hollow aluminum rims from known manufacturers with reinforced spoke eyelets (min. 4,4mm).

The Rigida Andra rims specifically drilled for the Rohloff are perfect.

For all other uses we recommend the Stans no tubes rims.

You can use them with the Rohloff Speedhub 500/14 without any problems.



What spokes should I use?

Rohloff AG designed the SPEEDHUB to be robust enough for all bicycle applications including cargo bikes and tandem bikes. In order to achieve this, the SPEEDHUB was constructed with flanges to accommodate 2.9mm spoke neck lengths. The benefits of this neck length enabled the size to remain the standard retrofit market length for over 20 years.

Many spoke manufacturers (including SAPIM and DT Swiss) have however changed their “standard” spoke neck length over the past few years. DT Swiss’ new standard neck length is 2.4mm and SAPIM have reduced their standard length to 2.7mm. Use of these spokes in combination with the SPEEDHUB have and continue to lead to damage around the spoke neck which can eventually lead to flange failure.

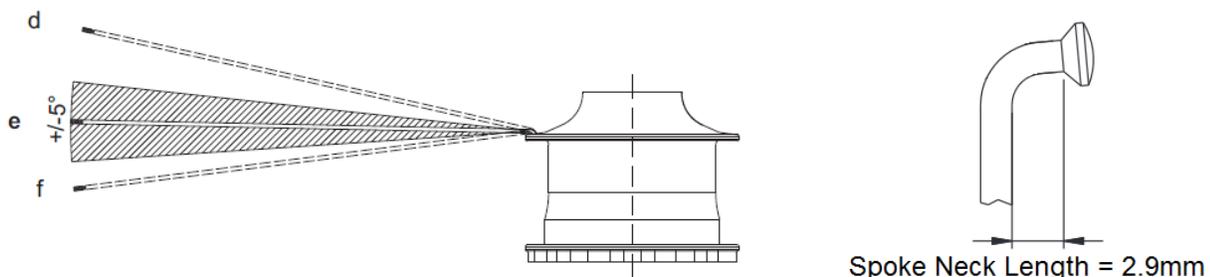
The spoke neck length required for the SPEEDHUB remains 2.9mm.

To ensure our customers remain able to acquire spokes, we offer spokes with the correct neck length for the most common ERD values/wheel sizes. SPEEDHUB wheels must be laced with SAPIM Race DB-Spokes (2.0-1.8-2.0) with a head length of 2.9mm:

Only the use of Rohloff supplied Sapim race spokes with the correct head length and...

- An equal and high spoke tension of 1000N with mounted and inflated tire / 1300N without mounted tire.
 - Burr-free, quality spoke heads
 - Spokes following the identical path as previously when re-lacing a wheel
- ...will reduce the risk of flange damage to an absolute minimum.

Checking the spoke bend compatibility:



- d) Spoke bend too short and/or spoke diameter too large
- e) Spoke bend and diameter correct
- f) Spoke bend too long and/or spoke diameter too small

You can order spokes from PureSports.

What are the Flange rings?

These are a machined aluminum ring that fits over the hub flange

Why use Flange rings?

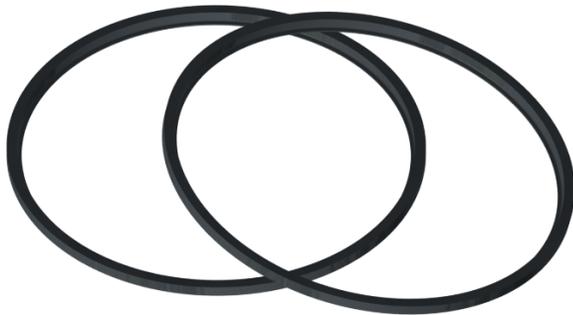
These have been specially developed for extreme applications to support the hub flange material in the rare event that a spoke should crack the shell.

The flange rings increase the strength of the hub flange and Heavily laden Cargo, Touring, E-bikes and Tandem applications are obliged to lace SPEEDHUB wheels using the flange support rings.

Their use is a sign of a quality wheel build and fitting them is mandatory for all SPEEDHUB wheels where they are included in the box (standard from 2018).

The vast majority of SPEEDHUB 500/14 units have been in use for years and have been re-laced into new rims on numerous occasions.

If you are re building your wheel in to a new rim then you must ensure that the flange support rings are installed.



Article Number Information:

Art. No. 8524 Flange support rings for the SPEEDHB 500/14 (1x small, 1x large) current SPEEDHUB Models with text “Made in Germany” underlined.

Only relevant to the retrofit market / older generation SPEEDHUB units:

Art. No. 8523 Flange support rings for the SPEEDHB 500/14 (2x small) older SPEEDHUB Models with text “Made in Germany” not underlined.