Rohloff SPEEDHUB 500/14 XL - CC-170mm / TS-170mm / A12-177mm

Mounting Data (extension)

The complete documentation can be found at:

The new SPEEDHUB 500/14 XL versions are identical to the regular SPEEDHUB 500/14 models except for their additional length resulting in a 170mm O.L.D. These XL units are available in a black anodized finish only. These are all 32 hole disc-brake versions and will use the external gear mech. They are available with a choice of M10x1 threaded (TS)* or 10mm hollow quick release (CC) axles and a choice of OEM, OEM2 or standard long torque arm axleplates. Alternatively the XL SPEEDHUB versions can be supplied with an A12** axle (177mm) and either the OEM or PM axleplate for mounting into 12mm thru-axe frames. The method of installing each hub is identical to all other SPEEDHUB versions currently available.

*TS hubs must be used when mounting a SPEEDHUB into horizontally slotted dropouts – the quick release axle will not hold the hub securely in the frame.

**A12 hubs can only be used in frames which have been compatibility tested by a local bicycle shop using the special Rohloff dropout measurement kit.

SPEEDHUB XL versions are not authorized for tandem use!

Chainline/Beltline:
The SPEEDHUB 500/14 XL versions use the following chainlines:

Traditional chain use:
15, 16 and 17 tooth threaded, reversible sprockets = 72.00mm
13 tooth threaded, non-reversible sprocket = 75.00mm

13-19 + 21 tooth splined, reversible sprockets = 75.00mm with splined carrier standard (Art.#8540)
15-19 + 21 tooth splined, reversible sprockets = 73.00mm with splined carrier slim (Art.#8540s)

Gates Carbon Drive (Centertrack system) in combination with Gates Snubber:
Original threaded carrier (text facing inward to hub body) = 73mm (Art.#8224)
Splined carrier (text facing outward from hub body) = 73mm (Art.#8540)

All chainlines / beltlines provide sufficient chain/tire clearance even when using 5” tires on 100mm rims.

Transmission Ratios:
Please refer to the table below for gear-inches (meters):

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Wheel Lacing:
As with all other SPEEDHUB versions, wheels of 26" diameter and over must be laced in a 2x pattern. They should use high quality DB spokes and be laced to a minimum 1000N (please note this value must be checked after the tire is inflated - air pressure can cause the spoke tension to drop by up to 30%).

We recommend the use of 2.0/1.8/2.0 spokes with 2.9mm Spoke bend length, from quality manufacturers such as the Sapim Race or DTSwiss Competition. Extra thick 2.34mm spokes must not be used! The head length of these spokes is too short and their use will eventually lead to flange failures!

Please refer to the table below for Spoke lengths of the most common ERD values:

<table>
<thead>
<tr>
<th>Laufradgröße / Wheel Size</th>
<th>Anzahl Kreuzungen / Number of Spoke Crosses</th>
<th>32-Loch Gehäuse Speichenlänge / 32-hole hubshell spokelength</th>
</tr>
</thead>
<tbody>
<tr>
<td>26&quot; 2-X</td>
<td>516-519</td>
<td>228 226 226</td>
</tr>
<tr>
<td>250-523</td>
<td>230</td>
<td>228 228 228</td>
</tr>
<tr>
<td>252-527</td>
<td>232</td>
<td>230 230 230</td>
</tr>
<tr>
<td>258-531</td>
<td>234</td>
<td>232 232 232</td>
</tr>
<tr>
<td>532-535</td>
<td>236</td>
<td>234 234 234</td>
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<tr>
<td>536-539</td>
<td>238</td>
<td>236 236 236</td>
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<tr>
<td>540-543</td>
<td>240</td>
<td>238 238 238</td>
</tr>
<tr>
<td>544-547</td>
<td>242</td>
<td>240 240 240</td>
</tr>
</tbody>
</table>

* ERD Messung - siehe Rohloff Handbuch ‘Bestimmung des Felgeninnendurchmessers’.  
* ERD Measurement - please refer to the Rohloff SPEEDHUB Owners Manual - ‘Determining the effective rim diameter’.

Please note:- The Rohloff AG does not recommend the use of rims with a nipple offset of less than 12.5m. A nipple offset of less can lead to spokes ‘kinking’ at the nipple join and thus prematurely failing in this area!

**SPEEDHUB 500/14 XL Article Codes/Numbers:**

- CC DB 170mm - Art.#8022XL  
- CC DB OEM 170mm Art.#8027XL  
- CC DB OEM2 170mm - Art.#8027ZXL  
- CC DB PM 170mm – Art.#8027PLXL  
- A12 DB PM 177mm - Art.#8097PMXL  
- TS DB 170mm - Art.#8062XL  
- TS DB OEM 170mm - Art.# 8067XL  
- TS DB OEM2 170mm - Art.#8067ZXL  
- TS DB PM 170mm – Art.#8027PLXL  
- A12 DB OEM2 177mm - Art.#8097ZXL

**Contact:**

service@rohloff.de +49 (0)561 510 800 or contact your local Rohloff distributor.

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