



Rohloff SPEEDHUB 500/14 XXL - CC-190mm / A12-197mm

Mounting Data (extension)

The complete mounting instructions and SPEEDHUB 500/14 owners manual can be found at:

<http://www.rohloff.de/en/service/downloads/documentation/index.html>

The basis for the new SPEEDHUB 500/14 XXL versions is the SPEEDHUB XL – a regular SPEEDHUB 500/14 unit internally extended to create a 170/177mm O.L.D. hub. The XXL SPEEDHUB unit merely extends this XL version further with the addition of external adapters on each side (10mm or 13.5mm respectively) to create the 190mm (CC axle) or 197mm (A12 axle) XXL versions.

The XXL SPEEDHUB units are only available as 32 spoke disc brake versions using the external gear mech and are all finished in anodized black. These are available with a choice of CC or A12 axle but must use the OEM2 torque anchoring option.

These hubs will all require an adapter to which the OEM2 axleplate will anchor itself. Frames featuring an international standard (IS2000) mount on the seatstay can use either the Monkebone -10/160 or Monkeybone -10/180. Frames featuring a 160mm postmount can use a Fatbone 180, frames featuring a 180mm can use the Fatbone 203.

The main mounting conditions of the SPEEDHUB 500/14 XXL units are identical to those of XL and regular SPEEDHUB versions. If an external chain tensioner is required when mounting SPEEDHUB XXL units, then the special chain tensioner -10 must be ordered (Art.# 8250-10).

SPEEDHUB XL/XXL versions are not authorized for tandem use!

Chainline/Beltline:

The SPEEDHUB 500/14 XXL Fatbike versions use the following chainlines

Traditional chain use:

15, 16 and 17 tooth threaded, reversible sprockets = 72mm
 13 tooth threaded, non-reversible sprocket = 75mm

13-19 + 21 tooth splined, reversible sprockets = 75mm with splined carrier standard (Art.#8540)

15-19 + 21 tooth splined, reversible sprockets = 73mm with splined carrier slim (Art.#8540s)

Gates Carbon Drive (Centertrack system) in combination with Gates Snubber -10:

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 to calculate a suitable chainring/sprocket combination:

Entfaltungstabelle SPEEDHUB XL für 26" Fatbikes (Radumfang=2.32m)

Ritzel Kettenblatt	13 Zähne		14 Zähne		15 Zähne		16 Zähne		17 Zähne		18 Zähne		19 Zähne		21 Zähne	
	von	bis	von	bis	von	to	von	bis	von	bis	von	bis	von	bis	von	bis
26 Zähne	1,29m	- 6,81m	1,20m	- 6,32m												
28 Zähne	1,39m	- 7,33m	1,29m	- 6,81m	1,21m	- 6,35m										
30 Zähne	1,49m	- 7,85m	1,39m	- 7,29m	1,29m	- 6,81m	1,21m	- 6,38m								
32 Zähne	1,59m	- 8,38m	1,48m	- 7,78m	1,38m	- 7,26m	1,29m	- 6,81m	1,22m	- 6,41m						
34 Zähne	1,69m	- 8,90m	1,57m	- 8,27m	1,47m	- 7,71m	1,38m	- 7,23m	1,29m	- 6,81m	1,22m	- 6,43m				
36 Zähne	1,79m	- 9,42m	1,66m	- 8,75m	1,55m	- 8,17m	1,46m	- 7,66m	1,37m	- 7,21m	1,29m	- 6,81m	1,23m	- 6,45m		
38 Zähne	1,89m	- 9,95m	1,76m	- 9,24m	1,64m	- 8,62m	1,54m	- 8,08m	1,45m	- 7,61m	1,37m	- 7,19m	1,29m	- 6,81m		
40 Zähne	1,99m	- 10,47m	1,85m	- 9,72m	1,73m	- 9,08m	1,62m	- 8,51m	1,52m	- 8,01m	1,44m	- 7,56m	1,36m	- 7,17m	1,23m	- 6,48m
42 Zähne	2,09m	- 11,00m	1,94m	- 10,21m	1,81m	- 9,53m	1,70m	- 8,93m	1,60m	- 8,41m	1,51m	- 7,94m	1,43m	- 7,52m	1,29m	- 6,81m
44 Zähne	2,19m	- 11,52m	2,03m	- 10,70m	1,90m	- 9,98m	1,78m	- 9,36m	1,68m	- 8,81m	1,58m	- 8,32m	1,50m	- 7,88m	1,36m	- 7,13m
46 Zähne	2,29m	- 12,04m	2,13m	- 11,18m	1,98m	- 10,44m	1,86m	- 9,78m	1,75m	- 9,21m	1,65m	- 8,70m	1,57m	- 8,24m	1,42m	- 7,46m
48 Zähne	2,39m	- 12,57m	2,22m	- 11,67m	2,07m	- 10,89m	1,94m	- 10,21m	1,83m	- 9,61m	1,73m	- 9,08m	1,64m	- 8,60m	1,48m	- 7,78m

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**Rohloff SPEEDHUB 500/14 XXL for bicycles with a CC-190/A12-197mm frame spacing.
Mounting Information – Extension to the Rohloff SPEEDHUB 500/14 Owners Manual**

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 from quality manufacturers such as the Sapim Race or DT-Swiss 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! [Spokes must have a head length/bend of 2.9mm.](#)

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

FATBIKE (170mm, 177mm, 190mm, 197mm)



**32-Loch Gehäuse Speichenlänge
32-spokehole hubshell spokelength**

Lauf- rad größe / Wheel Size	Anzahl Kreuzungen / Number of Spoke Crosses	ERD*	32-Loch Speichen- länge / 32- hole Spoke lengths 7mm Offset	32-Loch Speichen- länge / 32- hole Spoke lengths 12.5mm Offset	32-Loch Speichen- länge / 32- hole Spoke lengths 20mm Offset
26"	2-X	516-519	228	226	226
		520-523	230	228	228
		524-527	232	230	230
		528-531	234	232	232
		532-535	236	234	234
		536-539	238	236	236
		540-543	240	238	238
544-547	242	240	240		

* ERD Messung - siehe Rohloff Handbuch 'Bestimmen 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 XXL (CC-190mm/A12-197mm O.L.D.):

-CC DB OEM2 – Article number 8027ZXXL

-A12 DB OEM2 – Article number 8097ZXXL

The Rohloff service team would like to wish you many hours enjoyable cycling with your new Rohloff Product.