



Assembly Instructions Wheelsets – Roadbike / Gravel / MTB

We're pleased that you've chosen a SCHMOLKE Carbon wheel. Our wheels are uncompromisingly lightweight and made from the highest quality materials. If a third party uses our product, they should also read the operating instructions. Please retain these instructions for future reference. Also note the safety instructions for other components used with the wheel (tires, brakes, etc.). Please note that improper use, incorrect assembly, and accidents can lead to component damage, which could potentially result in total failure. Please note that the assembly and maintenance of wheels require basic knowledge of bicycle components. If in doubt, always contact your dealer.

Danger:

Potential damage or dangerous impairment of product safety: Incorrect handling, maintenance, or care can lead to serious accidents with danger to life and limb.

Caution:

Potential damage to the impeller: Incorrect selection of components or tools can significantly impair the product quality and service life of the impeller.

Safe Operation:

System Weight

Ensure that the permissible system weight of the wheels is not exceeded.

Use:

The wheels may only be used for their intended purpose. Failure to comply with these instructions will void the user's claims against SCHMOLKE Carbon. The SL/TLO 37 and TLO 50 are designed for road use. The SL/TLO MTB and SL/TLO Gravel wheels can also be used on unpaved surfaces.

Technology and Maintenance:

Spoke System

Correct spoke tension is crucial for the safe operation of your wheels. To check your spoke tension, contact your dealer or our Customer Service directly: customerservice@schmolke-carbon.com

Hubs and brake discs:

All our wheels must be used with disc brakes with a center lock or 6-bolt IS brake disc. Always install the brake disc according to the manufacturer's specifications.

Unless otherwise specified, the center lock nut should be tightened to a maximum of 40 Nm. Ensure that the brake disc no longer has any axial play after tightening. If this is the case, loosen the center lock nut and reinstall it. If axial play still exists, please contact your dealer or SCHMOLKE Carbon. Never ride with a loose brake disc, as this could result in serious accidents. The front and rear hubs must be serviced at least once a year.

With regular use under extreme conditions (e.g., heavy rain, mud, transport in the rain, etc.), the freehub body, pawls, and ratchet discs should be serviced more frequently. The freehub bodies of NONPLUS and EXTRALITE SPD3 and SPD3+ hubs, as well as DT SWISS 240/180, are made of aluminum. Therefore, it's possible that individual sprockets may have worn into the freehub body. These notches in the cassette are not damage. You can remove the burrs from the notches with a file. After this process, clean the freehub body of any chips.



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Tires:

The SL/TLO 37 and TLO 50 wheelsets, as well as the SL/TLO Gravel and SL/TLO XC MTB, can be used tubeless or with a tube. We do not guarantee the system used, as we have no control over the installed tire, tube, or sealant used in tubeless applications. However, we provide the following information:

1. Make sure a tubeless tape is installed. Our wheels come with a suitable tubeless tape.
2. If using a tubeless tire, fill the tire with sealant according to the manufacturer's instructions.
3. If using a tube, install it according to the manufacturer's specifications.
4. Mount the tire according to the manufacturer's instructions using a suitable mounting fluid (e.g., soapy water).
5. SCHMOLKE Carbon supplies suitable valves. If third-party valves are used, they must have the correct diameter and be of sufficient length.
6. Inflate the tire to its maximum pressure. Never exceed the maximum tire pressure. Also, be sure to check the rim's maximum pressure.
7. Check that the tire seat is sitting flat on the rim. Adjust the pressure to the desired operating pressure if necessary. Metal tire levers should not be used, as they could damage the surface of the rim or the tube.

Check the tire sealant regularly. Sealant can be refilled as needed. Once a year, the sealant should be removed and the inside of the tire cleaned. A worn-out tubeless tape can cause a sudden loss of tire pressure. This can result in serious accidents. The wheels are approved for various tire sizes. The maximum permissible tire pressure varies depending on the size. The included valves are based on the rim height.

Important: Maximum spoke tension of the rims for:

- **Road/Gravel bike = 1,200 N**
- **MTB = 1,050 N**

Roadbike: recommended tire width = 28 – 40 mm
Recommended system weight: **max. 115 kg**

Tire width (mm)	28	30	32	36	40
Pressure (bar)	7,5	6,9	6,5	5,7	5,1

Gravel bike: recommended tire width = 30 – 55 mm
Recommended system weight: **max. 120 kg***

Tire width (mm)	30	35	40	45	50	55
Pressure (bar)	4	3,6	3,3	3	2,7	2,4

MTB: recommended tire width = 2,1" – 2,7"
Recommended system weight: **max. 120 kg***

Tire width (Inch)	2,1	2,4	2,7
Pressure (bar)	3	1,9	1,5

Gravel and MTB rims are designed exclusively for use with TLR tires. They can also be mounted without any issues using inner tubes. Recommended system weight with PiRope textile spokes: **max. 110 kg***.



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Due to the rolling resistance and ambient temperature encountered while riding, the pressure in the wheel increases significantly. This can result in a loss of preload in the spokes, which promotes premature fatigue of the spoke system. In the worst case, the tire can also burst, leading to serious accidents.

SCHMOLKE Carbon Spokes:

Our carbon spokes must not be subjected to torsion. Therefore, each spoke must be held firmly with the included spoke wrench while tightening the corresponding nipple.

Cleaning:

The wheels can be cleaned with a soft cloth and water. Do not use solvent-based cleaners (acetone, gasoline), as these can damage the labels. Do not use high-pressure or steam cleaners to clean your wheels, as this could damage the bearings and spokes.

Storing wheels with carbon spokes:

Both the spokes and rims of your TLO 37 and TLO 50 wheels are made of fiber-reinforced plastic (FRP). To avoid damage to the FRP, they must not be exposed to consistently high temperatures above 80°C. This can lead to a significant loss of spoke tension. Therefore, ensure that the wheels are not exposed to large heat sources such as open flames or extreme direct sunlight with high temperatures (e.g., behind glass panes). Continuous exposure to high UV radiation will reduce the lifespan of the fiber-reinforced plastic. Therefore, avoid storing the wheels in environments exposed to high levels of UV light (e.g., direct sunlight).

Transport:

The wheels can be damaged during transport. Please note the following:

- Do not place any objects on the wheels.
- Do not apply pressure to the rims or spokes.
- Pad the rims before attaching straps or ratchet systems.
- Keep a sufficient distance from a vehicle's exhaust due to the heat generated. Use an exhaust extension if necessary.

SAFETY & WARRANTY:

Exceeding the permissible system weight and the prescribed spoke tension jeopardizes your safety and invalidates your warranty claims.

3-year warranty on SCHMOLKE Carbon products

You have purchased a quality product that is carefully handmade in Germany and then individually checked. Since we produced the first road handlebar made of carbon fiber in 1992, we have been setting standards in terms of weight and durability in terms of weight and durability. In addition to the positive test results of our products, we also see ourselves confirmed by the many professional athletes who count on our components in their daily training and competition. All SCHMOLKE Carbon bike parts are designed in several layers after computer-aided analysis of the forces that occur and are optimally adapted to the respective rider type.

We will replace your SCHMOLKE Carbon bike part free of charge in the event of a material-related crack or breakage within the first 3 years from the date of purchase (first ownership). Therefore, register your new product to receive the full warranty. Simply scan the QR code on the right!

