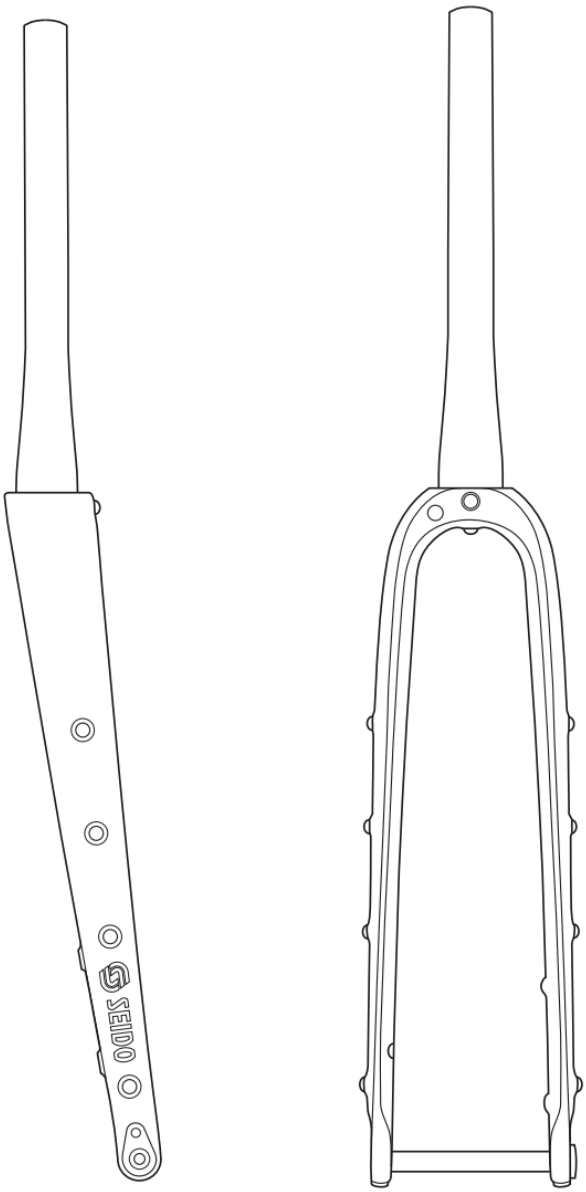
SEIDO

Instruction manual fork



Content

General information

Attention: All Seido components must be assembled by a qualified bicycle mechanic using appropriate tools. All the following installation instructions are aimed at these people.

Screw connections that are marked with a torque in the assembly instructions or on the component itself must always be tightened using a calibrated torque wrench. Screws that are too tight or too loose can lead to component failure and subsequently to a fall with serious injuries or even death.

In order to ensure safe operation, this and, if applicable, other enclosed technical documentation for assembly, commissioning, care and maintenance must be observed.

Seido Components accepts no liability for property damage or personal injury caused by incorrectly assembled components or failure to follow the instructions for commissioning, use, maintenance and care.

Attention: Cycling can be dangerous, before each ride all components must be checked for correct installation, tight fit and freedom from defects and defects (cracks, deformations, wear, corrosion).

Carbon components can suddenly fail during operation due to improper use and external damage. Therefore, they should be subjected to a full visual inspection for surface defects before each ride. Do not put carbon components with cracks, holes or deformations into operation! In this case, it is essential to consult a qualified mechanic to check and, if necessary, replace the component.

Mounting carbon fork

Mounting the headset / cone

According to the S.H.I.S. information, a tax rate suitable for the frame must be selected. Seido recommends mounting a headset with a slotted fork cone (see Image 1), they do not have to be pressed onto the cone seat. When using a closed cone, the note below should be observed.

Attention: Before a closed fork cone is pressed, the inner diameter of the cone must always be checked. This must be in the range of 39.7 - 39.8 mm with a nominal cone seat of 40 mm (see Image 2). Buoyancy of a cone below 39.7 mm inner diameter can damage the steerer tube and lead to undetectable material failure. There is a danger to life! A cone with an inner diameter larger than 39.8 mm is too loose and the headset will not be able to be adjusted without play.

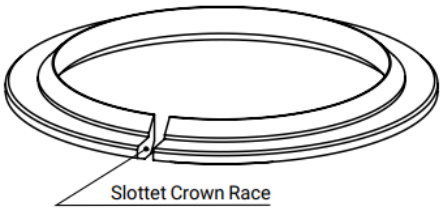


Image 1 Forked cone with slot

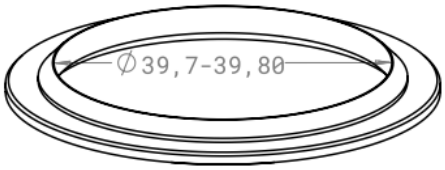


Image 2 Closed fork cone for crimping

Shorten steerer tube

Caution: Machining carbon produces carcinogenic dust. Wear a respirator. Do not inhale dust. Clean work surfaces with a moistened rag.

Shaft

The shaft length must be chosen so that 35 mm is not exceeded between the upper edge of the upper control bearing and the lower edge of the stem, see Image 3. Furthermore, the length of the steerer tube must be chosen so that, including the contact height of the expander, at least 5 mm of steerer tube protrudes over the stem in order to achieve a complete and even clamping of the steerer tube (Image 4).

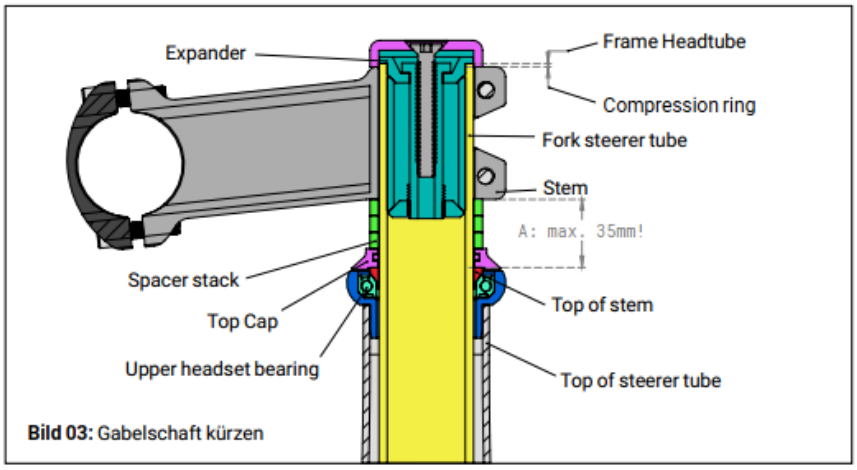


Image 3 Schaftläng

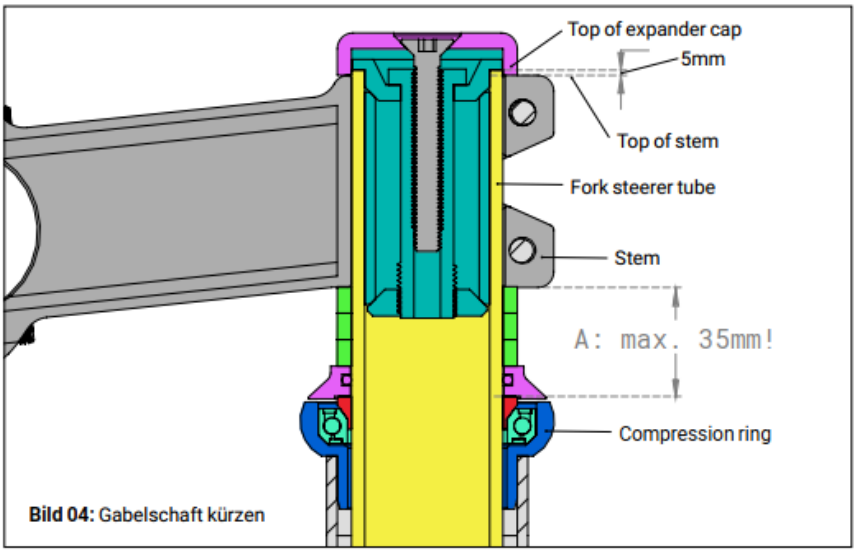


Image 4 Shorten steerer tube

Shorten the shaft

To shorten the shaft, use a saw guide and saw blade suitable for carbon (Image 5). To keep fraying to a minimum, wrap the shaft area behind the cut tightly with a little elastic tape (Image 6).

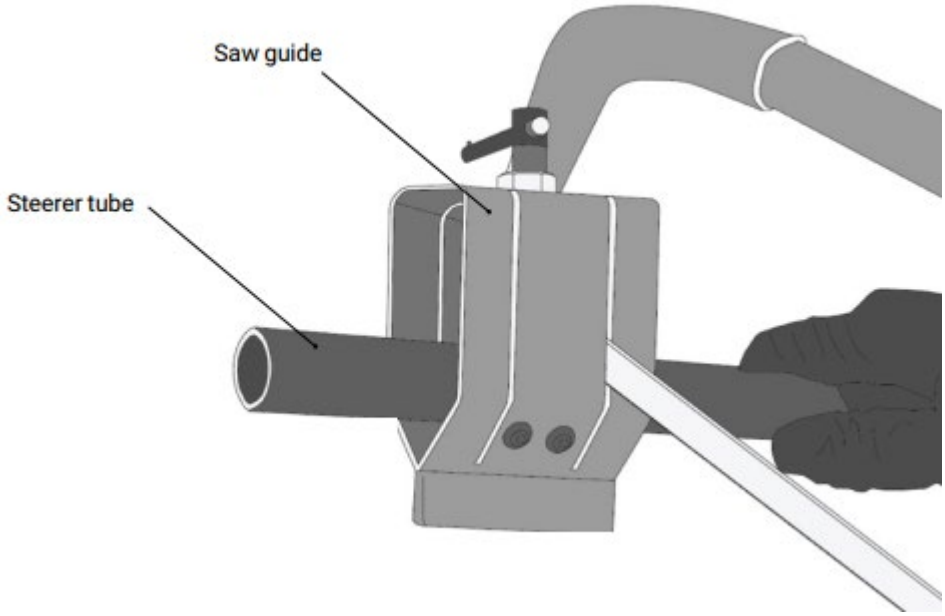


Image 5 Steerer Tube Saw Guide

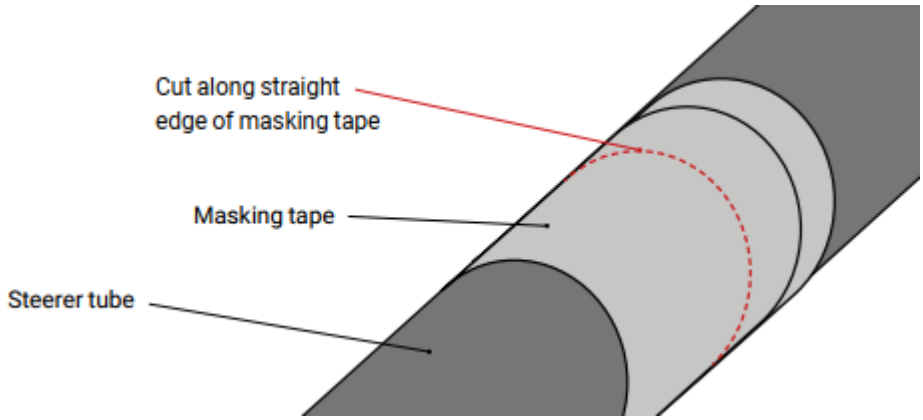


Image 6 Adhesive tape steerer tube

Burr

Lightly deburr the inside and outside of the shaft with a suitable file, no sharp edges should remain.

Mounting the Expander

1. Measure the inner diameter of the steerer tube.

2. Install the expander with a slot opposite the stem clamp (see Image 7).

3. Assemble the expander with a specified torque.

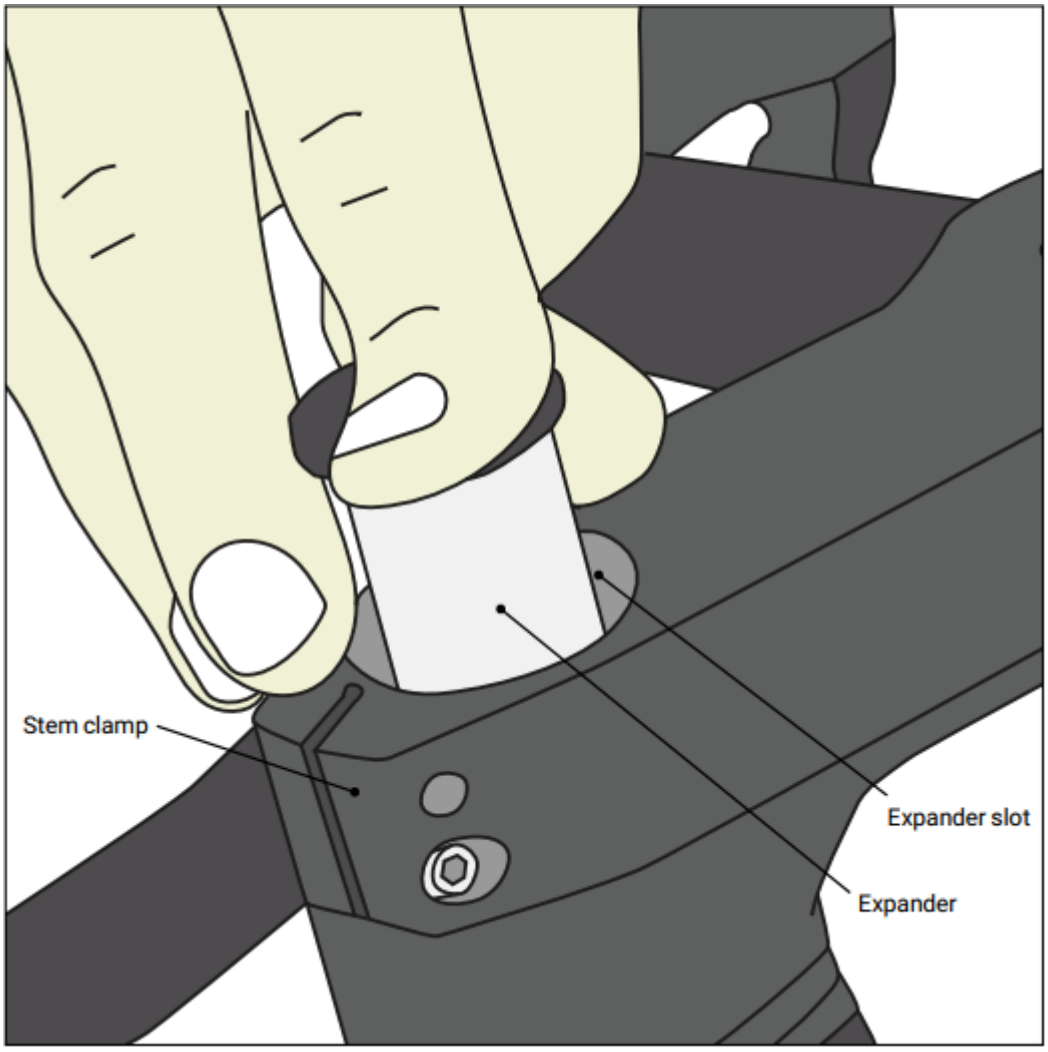


Image 7 Montage Expander

Mounting steel fork

Mounting the headset / cone

According to the S.H.I.S. information, a tax rate suitable for the frame must be selected. Seido recommends mounting a headset with a slotted fork cone (see Image 1), they do not have to be pressed onto the cone seat. When using a closed cone, the note below should be observed.

Attention: Before a closed fork cone is pressed, the inner diameter of the cone must always be checked. This must be in the range of 39.7 – 39.8 mm with a nominal cone seat of 40 mm (see Image 2). Buoying a cone below 39.7mm inner diameter can damage the steerer tube and lead to undetectable material failure. There is a danger to life! A cone with an inner diameter larger than 39.8 mm is too loose and the headset will not be able to be adjusted without backlash.

Shorten steerer tube

Shaft

The shaft length must be chosen so that 35 mm is not exceeded between the upper edge of the upper control bearing and the lower edge of the stem, see Image 3. Furthermore, the length of the steerer tube must be chosen so that, including the contact height of the expander, at least 5 mm of steerer tube protrudes over the stem in order to achieve a complete and even clamping of the steerer tube (Image 4).

Shorten the shaft

To shorten the shaft, use a saw guide and saw blade suitable for steel (Image 5).

Burr

Lightly deburr the inside and outside of the shaft with a suitable file, no sharp edges should remain.

Mounting the Ahead Claw

Hammer in the Ahead claw with a suitable impact guide and a hammer.

Caution: When hammering in, the fork must be held in the hand and must not be supported on a solid surface to prevent damage.

Mounting the brake caliper

1. Select the appropriate brake caliper and adapter using the "brake" indication in the specification table (page 12 ff).

2. Check the brake caliper threads of the fork: These should be undamaged and free of any foreign objects. If necessary, blow out with a desire to press.

3. Install the brake caliper and adapter according to the manufacturer's specifications. Pay attention to the maximum torque of the threads (see page 12 ff). Check the adapter position for the correct position for the selected disc diameter.

Installation instructions accessories

The maximum load capacity of the bottle cage eyelets refers to the dynamic load to which the brackets are subjected. Forks with mounted bottle cages must be handled with great care. If the bike with the bottle cage is placed against a wall or on the ground, or if the bottle cage hits an obstacle, a dynamic load is created that is far above the maximum load.

Installed cages must touch the surface of the fork blade within a 5 mm radius around the center of the mounting screw. (Image 8, grey area)

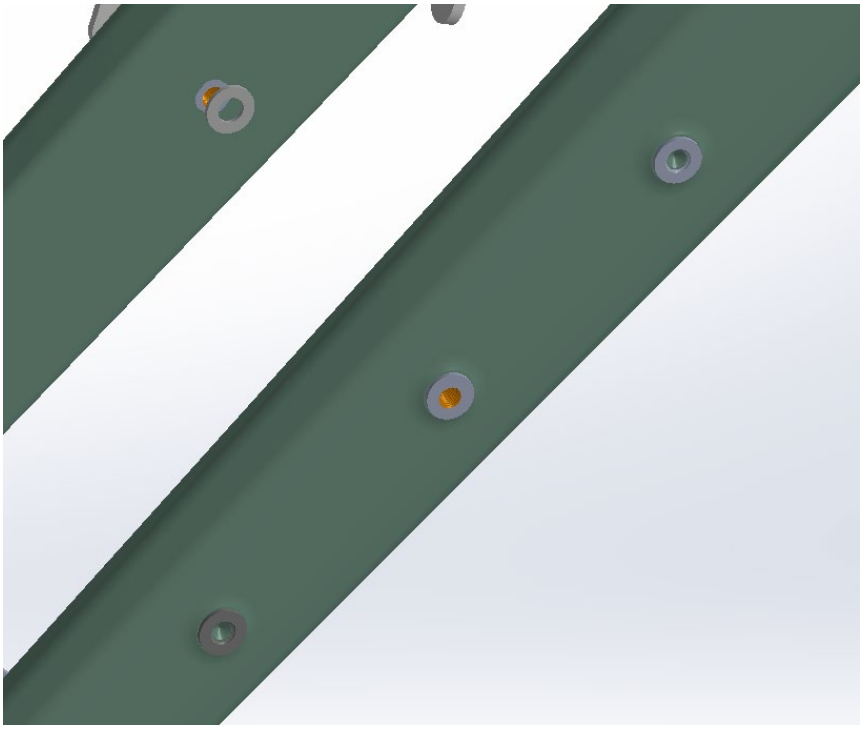


Image 8 Contact surface bottle cage eyelets

Caution: Spacers may need to be used between the cage and the fork tube.

A medium-strength screw lock should always be used with all bottle cages / protective sheets and luggage rack screws to prevent the screws from vibrating loose. Before any longer ride, the luggage rack and mudguards must be checked for a tight fit.

Weight

The weights in the specification table refer to the weight per eyelet. The maximum torque of the fastening screws is 5 Nm.

Maximum load bottle cage eyelet (1.5 kg per eyelet): A bottle cage with 2 fastening screws can be loaded with up to 3 kg, a cargo cage with three fastening screws with up to 4.5 kg.

Maximum load luggage rack (5 kg per eyelet): For lowrider luggage racks with four mounting points, this results in a maximum weight of 20 kg. For front racks with three attachment points, the maximum weight is 10 kg, as the attachment to the fork crown does not transfer a horizontal load.

Ongoing maintenance and inspection

Attention: Each bicycle part has a limited lifespan. Normal wear and tear, shocks or careless use can cause unexpected failure that can lead to serious injury. The fork must be inspected for signs of wear, stress or shock-related damage before each ride. If cracks, deformations, delamination or discoloration occur, or if creaking noises occur while riding, the fork must be checked carefully immediately.

Attention: With the exception of shortening the steerer tube, the fork must not be changed or modified in any way. Changes to the fork can cause the fork or other components to fail and lead to serious injury.

Scope

Seido forks are divided into different categories according to their area of application (according to EN 17406). Forks for gravel / all-road / cross bikes are approved for use under category 1 2 and 6, MTB forks for category 1 to 3 and 6. The respective categories are listed in the specification tables on page 14 ff.

Category 1

Description: Use on paved surfaces, tires keep contact with the ground at average speed.

Purpose: Commuting and leisure rides

Intended height of drops/jumps: Up to 15 cm

Typical average speed: 15 to 25 km/h

Category 2

Description: Use on unpaved surfaces, with moderate slopes.

Intended use: Gravel and Touring

Intended height of drops/jumps: Up to 15 cm

Typical average speed: 15 to 25 km/h

Category 3

Description: Use on unpaved surfaces, with jumps and drops up to 60 cm.

Purpose: XC and Trail MTBs

Intended height of drops/jumps: Up to 60 cm

Category 4

Description: Use on unpaved surfaces, with jumps and drops up to 120 cm.

Purpose: All Mountain MTBs

Intended height of drops/jumps: Up to 120 cm

Category 5

Description: Use on unpaved surfaces, with jumps and drops over 120 cm cm.

Purpose: Enduro and Downhill

Intended height of drops/jumps: over 120 cm

Category 6

Description: Use on paved surfaces at high speeds of more than 50 km/h

Purpose: Road Bike / CX / Gravel Race

Intended height of drops/jumps: Up to 15 cm

Typical average speed: 30 to 55 km/h

Specifications

RGT Gravel / Allroad Gabel

MODEL	RGT Fork
MATERIAL	UD-Carbon
STEER TUBE	Conical, 1-1/8" - 1-1/2", 300 mm length
MINIMUM DISTANCE FORK CROWN TO UPPER HEADSET BEARING	80 mm
S.H.I.S. DIMENSIONEN	28.6 | 40
OFFSET	50 mm
DISTANCE AXLE - FORK CROWN	400 mm
BRAKE	Flat Mount 160, rotor size 160 - 180 mm
INTERNAL ROUTING	Brake Hose / Dynamo CableTwo options for routing the front brake: fully internal brake line routing (the front brake line is placed through the steerer tube into the fork) or semi-internal brake line routing (the front brake line is placed through the right fork tube). The opening in the steerer tube can also be used for the completely internal routing of the hub dynamo cable.
MOUNTS	Cargocage / Headlights / Fenders
WEIGHT	510 g (without thru axle, without screws, uncut steerer)
TIRE CLEARANCE	47 - 622 / 54 - 584
MAXIMUM SYSTEM WEIGHT	130 kg
DIAMETER OF THE FORK CROWN	57 mm
EN 17406 CLASSIFICATION OF USE	1 / 2 / 6
HUB DIMENSION	12 x 100 mm
TA TOTAL LENGTH (CLOSED)	120 mm
TA THREAD DIAMETER X PITCH	M12 x 1.5
MIN. THREAD LENGTH	14 mm
MAX. HUB END CAP DIAMETER	21 mm
MAX. TORQUE EXPANDER	8 Nm
MAX. TORQUE STEM	6 Nm
MAX. DREHMOMENT TA	10 Nm
MAX. TORQUE BRAKE BOLTS	8 Nm
MAX. DREHMOMENT CARGOCAGE	5 Nm
MAX. TORQUE THREAD INSERT TA	-
MAX. LOAD PER BOTTLE CAGE EYELET	1.5 kg
MAX. LOAD LUGGAGE RACK	No luggage rack release

MGV Gravel / Allroad Gabel

MODEL	MGV Fork
MATERIAL	UD-Carbon
STEER TUBE	Conical, 1-1/8" - 1-1/2", 300 mm length
MINIMUM DISTANCE FORK CROWN TO UPPER HEADSET BEARING	100 mm
S.H.I.S. DIMENSIONEN	28.6 | 40
OFFSET	53 mm
DISTANCE AXLE - FORK CROWN	410 mm
BRAKE	Flat Mount 160, rotor size 160 - 180 mm
INTERNAL ROUTING	Brake Hose / Dynamo CableTwo options for routing the front brake: fully internal brake line routing (the front brake line is placed through the steerer tube into the fork) or semi-internal brake line routing (the front brake line is placed through the right fork tube). The opening in the steerer tube can also be used for the completely internal routing of the hub dynamo cable.
MOUNTS	Cargocage / Headlights / Fenders / Rack
WEIGHT	530 g (without thru axle, without screws, uncut steerer)
TIRE CLEARANCE	58 - 622 (29" x 2.25") / 64 - 584 (27.5" x 2.5")
MAXIMUM SYSTEM WEIGHT	140 kg
DIAMETER OF THE FORK CROWN	57 mm
EN 17406 CLASSIFICATION OF USE	1 / 2 / 6
HUB DIMENSION	12 x 100 mm
TA TOTAL LENGTH (CLOSED)	120 mm
TA THREAD DIAMETER X PITCH	M12 x 1.5
MIN. THREAD LENGTH	14 mm
MAX. HUB END CAP DIAMETER	19 mm
MAX. TORQUE EXPANDER	8 Nm
MAX. TORQUE STEM	6 Nm
MAX. DREHMOMENT TA	10 Nm
MAX. TORQUE BRAKE BOLTS	8 Nm
MAX. DREHMOMENT CARGOCAGE	5 Nm
MAX. TORQUE THREAD INSERT TA	2 Nm
MAX. LOAD PER BOTTLE CAGE EYELET	1.5 kg
MAX. LOAD LUGGAGE RACK	20 kg (5 kg per eyelet)

TAZA Bikepacking MTB Gabel

MODEL	Gabel MUG
MATERIAL	UD-Carbon
STEER TUBE	Conical, 1-1/8" - 1-1/2", 300 mm length
MINIMUM DISTANCE FORK CROWN TO UPPER HEADSET BEARING	100 mm
S.H.I.S. DIMENSIONEN	28.6 | 40
OFFSET	51 mm
DISTANCE AXLE - FORK CROWN	510 mm
BRAKE	Post mount 7", max. 220 mm rotor size
INTERNAL ROUTING	Dynamo cable
MOUNTS	Cargocage / Headlights / Rack
WEIGHT	656 g (without thru axle, without screws, uncut steerer)
TIRE CLEARANCE	75-622 (29" x 3.0") / 75-584 (27.5" x 3.0")
MAXIMUM SYSTEM WEIGHT	150 kg
DIAMETER OF THE FORK CROWN	57 mm
EN 17406 CLASSIFICATION OF USE	1 / 2 / 3 / 6
HUB DIMENSION	15 x 110 mm
TA TOTAL LENGTH (CLOSED)	135 mm
TA THREAD DIAMETER X PITCH	M15 x 1.5
MIN. THREAD LENGTH	14 mm
MAX. HUB END CAP DIAMETER	21 mm
MAX. TORQUE EXPANDER	8 Nm
MAX. TORQUE STEM	6 Nm
MAX. DREHMOMENT TA	10 Nm
MAX. TORQUE BRAKE BOLTS	8 Nm
MAX. DREHMOMENT CARGOCAGE	5 Nm
MAX. TORQUE THREAD INSERT TA	2 Nm
MAX. LOAD PER BOTTLE CAGE EYELET	1.5 kg
MAX. LOAD LUGGAGE RACK	20 kg (5 kg per eyelet)

BPS Bikepacking MTB Gabel

MODEL	BPS Fork
MATERIAL	Cr-Mo steel
STEER TUBE	Conical, 1-1/8" - 1-1/2", 300 mm length
MINIMUM DISTANCE FORK CROWN TO UPPER HEADSET BEARING	80 mm
S.H.I.S. DIMENSIONEN	28.6 | 40
OFFSET	51 mm
DISTANCE AXLE - FORK CROWN	500 mm
BRAKE	Post mount 6", max. 203 mm rotor size
INTERNAL ROUTING	Dynamo cable
MOUNTS	Cargocage / Headlights / Fenders / Rack
WEIGHT	1694 g (incl. thru axle, 10 screws, untrimmed steerer)
TIRE CLEARANCE	27.5" x 3.0" / 29" x 3.0"
MAXIMUM SYSTEM WEIGHT	175 kg
DIAMETER OF THE FORK CROWN	57 mm
EN 17406 CLASSIFICATION OF USE	1 / 2 / 3 / 6
HUB DIMENSION	15 x 110 mm
TA TOTAL LENGTH (CLOSED)	135 mm
TA THREAD DIAMETER X PITCH	M15 x 1.5
MIN. THREAD LENGTH	14 mm
MAX. HUB END CAP DIAMETER	21 mm
MAX. TORQUE EXPANDER	-
MAX. TORQUE STEM	8 Nm
MAX. DREHMOMENT TA	10 Nm
MAX. TORQUE BRAKE BOLTS	8 Nm
MAX. DREHMOMENT CARGOCAGE	5 Nm
MAX. TORQUE THREAD INSERT TA	-
MAX. LOAD PER BOTTLE CAGE EYELET	1.5 kg
MAX. LOAD LUGGAGE RACK	20 kg (5 kg per eyelet)