

Please read these instructions carefully and in full before starting installation to ensure that the Dentler BASIS mounting system functions correctly. This preserves its modular flexibility and absolute repeatability, allowing you to use your equipment with complete confidence.

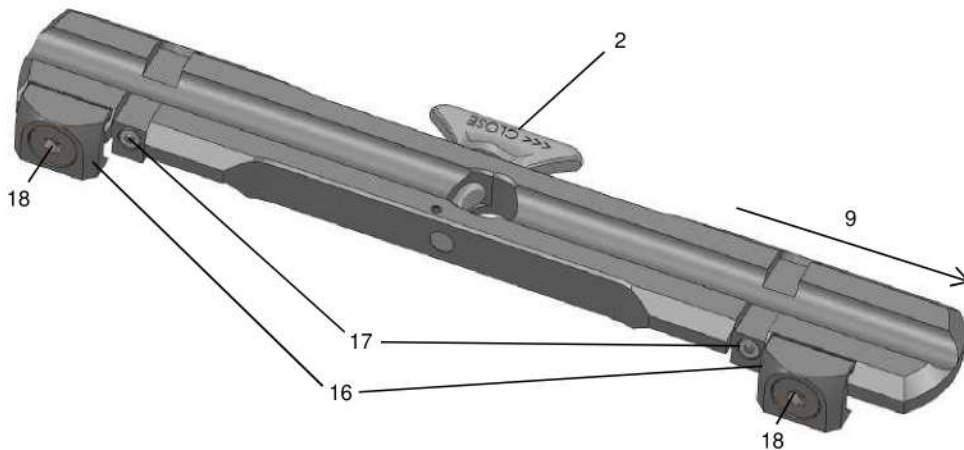
Important information

- Make sure that the firearm on which the mount is to be installed is unloaded.
- An incorrectly installed or adjusted riflescope mount can seriously impair shooting performance and your safety. Installation must therefore be carried out by a competent gunsmith to ensure all product characteristics and safety functions of the Dentler BASIS.
- The Dentler BASIS is intended exclusively for attaching sighting optics and auxiliary devices to firearms.
- A firearm fitted with the Dentler BASIS must not be passed on without these instructions.

BASIS base rail

The various BASIS base rail models are individually designed for the receiver or action of the firearm to be equipped. They are divided into two categories:

BASIS base rail with clamping jaws



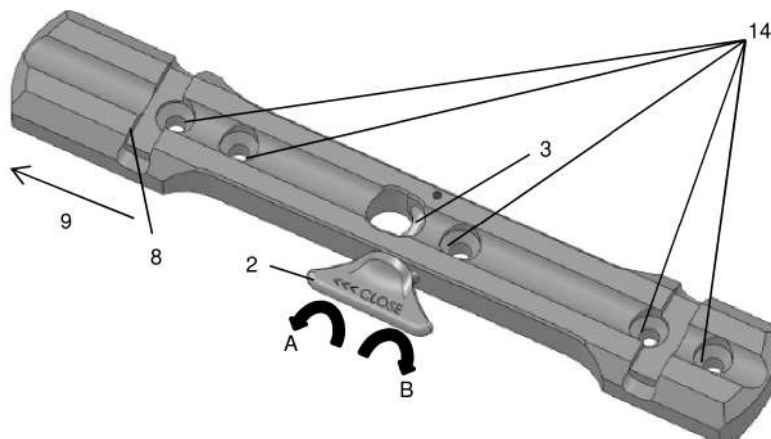
Loosen the screws (18) of the respective clamping jaws (16) until the BASIS base rail can be placed without resistance onto the receiver or action profile, with the clamping lever (2) on the left when viewed in the direction of fire (9). Make sure the relevant version of the BASIS base rail fits positively on the receiver. On bolt-action rifles, push the base rail forward in the direction of fire until it stops. On semi-automatic rifles, push it towards the shooter until it stops. Then secure the clamping screws (18) with threadlocker, e.g. Loctite 2400, using the following maximum torques:

CZ 550/557: max. 2 Nm
Blaser: max. 4 Nm

Merkel RX Helix: max. 4 Nm
Sauer S303: max. 2 Nm

Dentler BASIS Assembly Instructions

Screw-mounted BASIS base rail

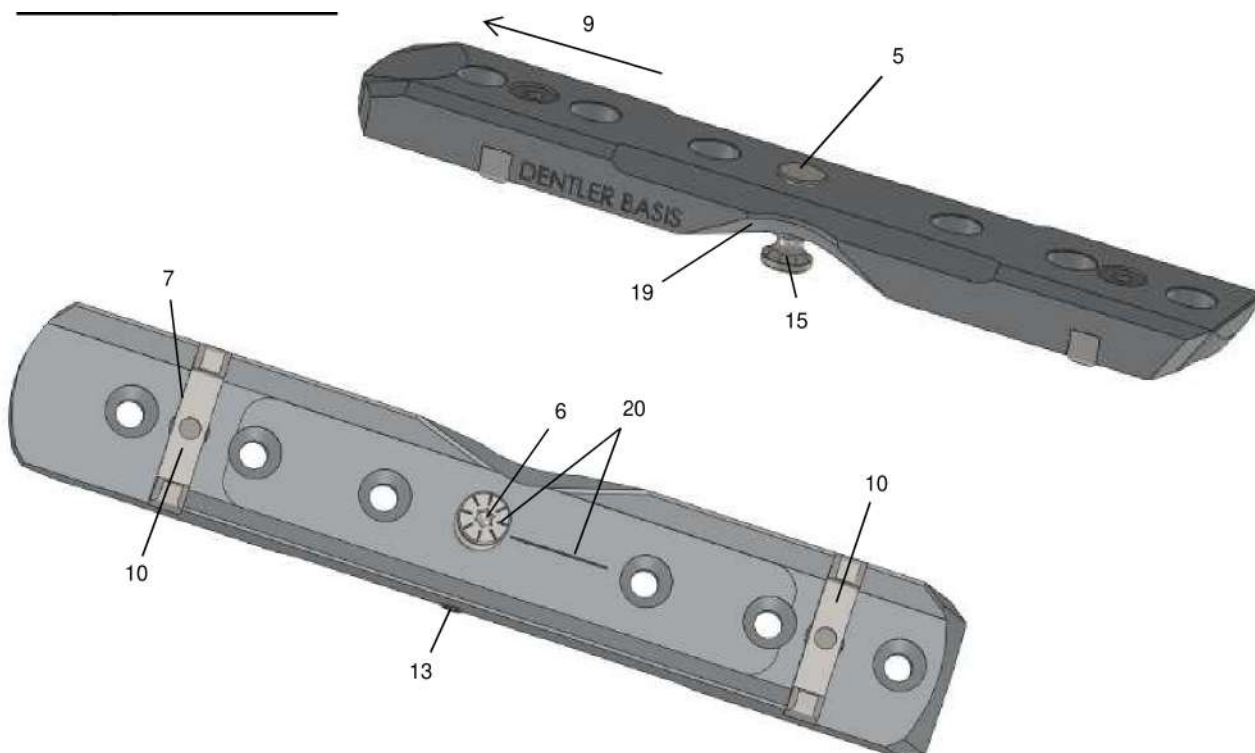


Remove the bluing from the bonding surfaces of the firearm and the BASIS base rail, then degrease them. Bond the BASIS base rail to the receiver or action using the predefined hole pattern (14), with the clamping lever (2) on the left in the direction of fire (9). Use an adhesive suitable for this purpose and ensure that the hole patterns of the BASIS base rail and receiver match. Then screw down the BASIS base rail using the supplied screws and threadlocker, e.g. Loctite 2400, with a maximum tightening torque of 2 Nm. Always allow the adhesive to cure fully before zeroing the firearm.

After installation, check the flatness of the base rail with a precision straightedge! A light gap of up to 0.05 mm over the full length does not affect functionality.

Make sure that the clamping lever shaft (3) is free from oil and grease.

BASIS mounting rail



Dentler BASIS Assembly Instructions

Loosen the locking screw (13) with a 3 mm Allen key and place the BASIS mounting rail on the BASIS base rail, with the clamping lever recess (19) on the left and the clamping lever open (2, position B, CLOSE >>>). Use a Torx 15 screwdriver on the front face (6) to adjust the rotatable locking shaft (5) to the optimum clamping tension. This is achieved when:

- the markings (20) are aligned, allowing the entire locking shaft profile (15) to clamp the BASIS mounting rail;
- the clamping lever (2) can be rotated through 180° with a comfortable amount of force from position B / CLOSE >>> to locked position A / OPEN >>>;
- the BASIS mounting rail is noticeably drawn into position over the clamping lever shaft (3) and sits on the BASIS base rail without play.

Then secure the locking shaft (5) while clamped, with the lever in position A / OPEN >>>, by tightening the locking screw (13) using a 3 mm Allen key. Apply a maximum tightening torque of 2 Nm and threadlocker, e.g. Loctite 243, to prevent unintended rotation.

How it works

When the clamping lever (2) is rotated to closed position A / OPEN >>>, the integrated clamping lever shaft (3) creates a pulling and pushing movement. The recoil lug surface (7) is positioned against the stop surface (8) in the direction of fire, while the prism supports (10) draw the mounting rail onto the BASIS base rail. All axes of the Dentler BASIS are therefore repeatedly centred, ensuring outstanding repeatability and a consistent point of impact.

Sighting optic

BASIS mounting rail - Rings

Insert the supplied lower ring halves from above into the available mounting holes according to the optic model and required eye relief. Observe the eccentrically positioned locating pins described in the note below. Insert the corresponding screws from underneath with a Torx 20 and leave them just short of fully tightened. Place the optic into the movable lower ring halves and align them parallel to one another. Now tighten the screws fully to a maximum torque of 4 Nm using threadlocker. Adjust the optic to the required eye relief and fit the upper ring halves parallel to the lower halves. Remove the optic again, degrease the bonding surfaces in the lower ring halves and apply a suitable adhesive. Refit the optic and lightly tighten the supplied screws in a crosswise pattern so that the optic can still be finely adjusted. Finally, apply threadlocker, e.g. Loctite 243, and tighten the screws fully in a crosswise pattern to a maximum torque of 2 Nm. The gaps between the upper and lower ring halves must be equal on the left and right. Allow the adhesive to cure fully.

Note: These mounting rings are the first of their kind to feature an eccentrically positioned locating pin. The maximum lateral adjustment range of 0.6 mm is available when the offset markings recessed into the rings are positioned diagonally opposite one another.



BASIS mounting rail - Zeiss ZM / Schmidt & Bender

Loosen the screws of the clamping wedges sufficiently to insert them into the riflescope rail. Move the still-loose optic until the required eye relief is reached. Then tighten the clamping wedge screws to a maximum torque of 5 Nm.

BASIS mounting rail - Swarovski SR

Loosen the screws of the clamping wedges sufficiently to insert them into the riflescope rail. Move the still-loose optic until the required eye relief is reached. Make sure that the toothed Swarovski SR rail engages correctly with the insert in the BASIS mounting rail. Then tighten the clamping wedge screws to a maximum torque of 5 Nm.

BASIS mounting rail - 70° prism

Loosen the screws of the lateral clamping jaws with a Torx 20 and remove the locking screw using a 6 mm Allen key. Fit the optic and move it until the required eye relief is reached. Mark the position of the locking screw on the optic through the hole. Measure the diameter and height of the locating pin on the locking screw and drill a matching hole in the optic at the marked position. Finally, install the optic by inserting the locking screw first and then tightening the lateral clamping jaw screws to a maximum torque of 5 Nm.

BASIS mounting rail - Königssee 1x17x24 (see Docter Sight)

Remove the two countersunk screws using a 2.5 mm Allen key and position the optic on the locating pins provided. Then secure the reflex sight with the countersunk screws to a maximum torque of 2 Nm. Also follow the Docter Sight installation instructions.

BASIS mounting rail - Weaver / Picatinny

Install the optic in accordance with the recommendations of the respective manufacturer.

Modules

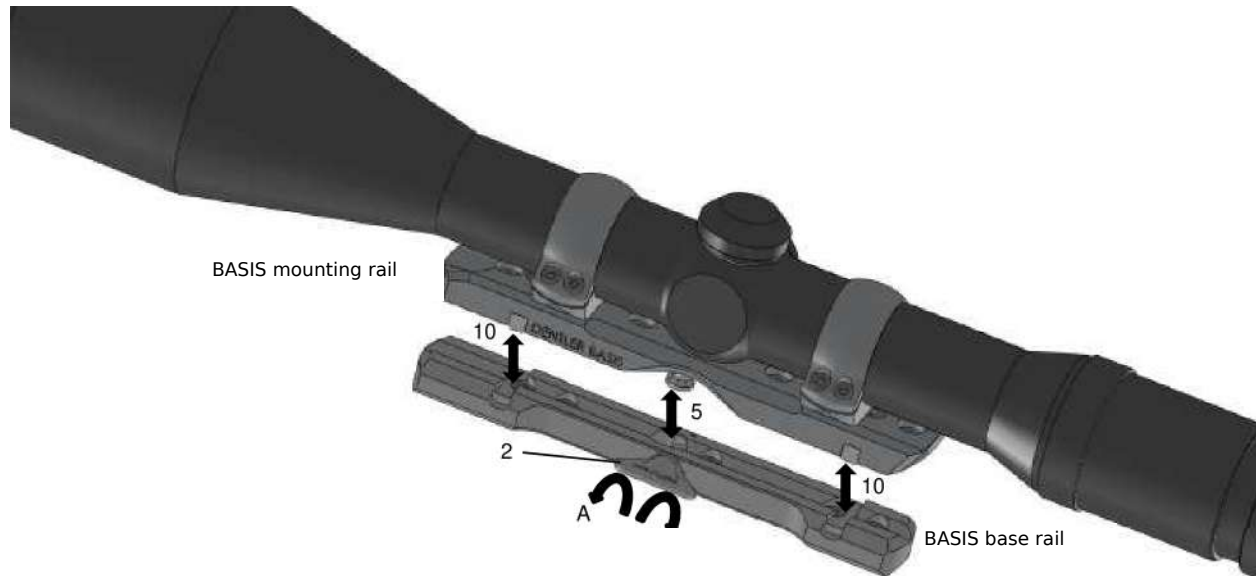
BASIS mounting rail - Rings + Dedal adapter rail

Remove the screws from the underside of the Dedal adapter rail using a Torx 20 and position it as required in the mounting holes of the BASIS ring mounting rail. Insert the screws from below and tighten them to a maximum torque of 4 Nm using threadlocker, e.g. Loctite 2400.

BASIS mounting rail - Rings + Weaver / Picatinny 230 mm

Remove the screws from the underside of the 230 mm Weaver/Picatinny rail using a Torx 20 and position the rail as required, with the 80 mm extension facing either the shooter's eye or the muzzle. Insert the screws from below and tighten them to a maximum torque of 4 Nm using threadlocker, e.g. Loctite 2400.

Operation



Attaching the BASIS mounting rail

To attach the mounted optic, position the BASIS mounting rail on the BASIS base rail with the clamping lever open (2, position B, CLOSE >>>). Engage the locking shaft (5) in the recess provided and the spring plates (10) in the transverse grooves of the base rail. Make sure the mounting rail is not placed on at an angle. Once the BASIS mounting rail is seated positively, press the clamping lever (2) towards the BASIS base rail and rotate it through 180° in the direction of fire, from open position B / CLOSE >>> to closed position A / OPEN >>>. Check that the optic is securely attached by attempting to remove it.

Removing the BASIS mounting rail

To remove the mounted optic, press the clamping lever (2) towards the BASIS base rail and rotate it through 180° towards the shooter, from closed position A / OPEN >>> to open position B / CLOSE >>>. The spring-loaded indexing balls in the BASIS base rail lightly retain the mounting rail and optic, which can then be lifted off easily. Always hold the optic firmly during this operation to prevent damage if it falls.