RADIAL BRAKE CALIPER TECHNICAL SPECIFICATIONS

4 Reasons to Choose an Accossato Brake Caliper

1. **Aesthetics**: Every minute aesthetic detail is carefully crafted in Accossato radial calipers.
2. **Product Range**: Wide selection of models with different colors and interaxles.
3. **Quality of "Made in Italy"**: All radial calipers are made in Italy. Each component is designed to ensure maximum braking performance.
4. Controls: Before being mounted and introduced to the market, all Accossato radial calipers undergo 100% inspection and testing.

Models and Usage Tips

Accossato radial calipers are manufactured using advanced technologies and the best materials available in the market. The caliper structures are produced using 5-axis CNC machines, ensuring minimal weight, optimal body rigidity, and excellent heat dissipation during braking.

The caliper body undergoes 100% inspection using three-dimensional laboratory machines during the machining process. Afterward, it undergoes oxidation through a specific hard oxide treatment for prolonged resistance.

Technical Distance Offset Brake Caliper Diagram

When choosing a brake caliper to purchase, ensure that the “caliper distance” and “offset” are compatible with the fork mount and motorcycle brake disc.

Accossato offers radial brake calipers with the following distance options:

- 108 mm
- 100 mm
- 60 mm

Brake Calipers with 108 mm Distance

- Code: **PZ001 CNC monoblock**

  Technical specifications
  Distance: 108 mm
  Offset: 22.5 mm
  Self-ventilated titanium pistons D34mm (4)
  Dust Seal: NO
  Pads not included: 4 caliper pads

- Code: **PZ012 CNC**

  Technical specifications
  Distance: 108 mm
  Offset: 22.5 mm
  Aluminum ergal pistons Ø29.5 mm (2) + Ø34 (2)
  Dust seal: yes
  Pads: 2 caliper pads

- Code: **PZ002 Forged monoblock**

  Technical specifications
  Interaxle: 108 mm
  Offset: 22.5 mm Self-ventilated titanium pistons D34mm (4)
  Dust Seal: NO
  Pads not included: 4 caliper pads

- Code: **PZ004 Forged monoblock**

  Technical specifications
  Interaxle: 108 mm
  Offset: 22.5 mm Aluminum ergal pistons D34mm (4)
  Dust seal: yes
  Pads included: 4 caliper pads

Brake Calipers with 100 mm Interaxle

- Code: **PZ005 CNC**

  Technical specifications
  Interaxle: 100 mm
  Offset: 30 mm Self-ventilated titanium pistons, 2 D34mm + 2 D38mm
  Dust Seal: No
  Pads not included: 2 caliper pads

- Code: **PZ011 CNC**

  Technical specifications
  Interaxle: 100 mm
  Offset: 30 mm Aluminum ergal pistons Ø29.5 mm (2) + Ø34 (2)
  Dust seal: yes
  Pads: 2 caliper pads

- Code: **PZ007 Forged monoblock**

  Technical specifications
  Interaxle: 100 mm Offset: 30 mm Aluminum ergal pistons D34mm (2) + D38mm (2)
  Dust seal: Yes
  Pads included: 2 caliper pads

Brake Calipers with 60 mm Interaxle

- Code: **PZ006 CNC monoblock**

  Technical specifications
  Interaxle: 60 mm
  Offset: 20.5 mm
  Self-ventilated titanium pistons, 2 D34mm
  Dust seal: No
  Pads not included: 2 caliper pads

- Code: **PZ008 CNC monoblock**

  Technical specifications
  Interaxle: 60 mm
  Offset: 20.5 mm
  Self-ventilated titanium pistons D29.5mm (2)
  Dust Seal: No
  Pads not included: 2 caliper pads

- Code: **PZ009 CNC**

Technical specifications
Interaxle: 60 mm
Offset: 23.7 mm
Aluminum ergal pistons D34mm (2)
Dust seal: Yes
Pads included: 2 caliper pads

Warranty

The warranty on Accossato calipers is valid for 24 months from the invoice date. Failure to send these documents does not entitle you to warranty coverage.

Accossato Radial Caliper Revisions

The revision of the Accossato caliper is carried out within 1 working week of receiving the radial caliper.

The revision includes:

- External product inspection
- Disassembly of the caliper into all its parts
- Microscope visual inspection of each caliper component
- Visual inspection inside the caliper body
- Replacement of gaskets
- Assembly of all parts
- Static caliper test
- Dynamic caliper test

Replaced parts are machined, and from the time of revision, the caliper gains an additional 12 months of warranty, upon presentation of the invoice. A second revision does not extend the product warranty.

The replacement of other external parts not mentioned is not included in the revision. In the case of a fall, the revision is carried out only if essential conditions are met for the caliper to return to optimal functioning, equivalent to a new caliper.

Brake Caliper Serial Numbers

The purchased Accossato radial caliper is unique and has a serial number that makes it individually identifiable from all other radial calipers. Removing this serial number results in the loss of warranty and assistance.

How to Replace Accossato Brake Calipers

To avoid dirtying the motorcycle with brake fluid, it can be useful to cover the parts under the caliper with a rag or absorbent paper

Disassembly:

1. Loosen the brake fluid feed connector just enough to unscrew it from the caliper without risking damage to the brake lines after removing the brake caliper.

   Caution: Protect the parts of the motorcycle that may come into contact with brake fluid during this operation with a cloth.

2. Unscrew the caliper locking screws from the fork mount and move the entire brake caliper assembly away from the motorcycle.

   Caution: These disassembly operations must be carried out with the utmost care, ensuring that brake fluid does not come into contact with vehicle parts that could be damaged (e.g., painted parts, plastics, rubber parts). To prevent oil leaks during disassembly, it is recommended to keep the brake caliper higher than all brake system parts. Rotate the caliper when possible so that the brake fluid feed connector faces upwards. Use a cloth or absorbent paper to cushion any oil leaks.

3. Completely unscrew the brake fluid feed connector (previously loosened).

   Caution: Immediately plug the hole with a cloth or paper to prevent oil leakage, always keeping the hole facing upwards.

Assembly:

1. Hand-screw the brake fluid feed connector (1) onto the Accossato brake caliper.

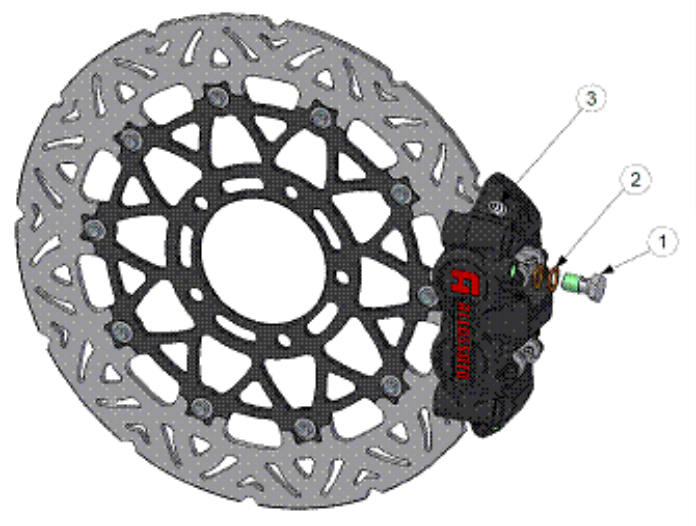
   Caution: To prevent the connector from leaking once installed, it is advisable to replace all copper washers (2) with new ones of the same type. Before screwing the connector, ensure it is compatible with the new brake caliper (thread on the brake caliper M10x1).

2. Position the new brake caliper on the fork mount. Mount the caliper so that its center axis aligns with that of the disc. Allow a maximum misalignment of 0.15 mm. Ensure there is a gap of at least 2 mm between the outer diameter of the disc and the caliper.

3. Optionally use spacers to move the brake caliper away from the disc. Tighten the caliper screws with a torque wrench to the prescribed torque in the instruction manual.

4. Tighten the brake fluid feed connector (1), which was hand-screwed previously, with a torque of 20-23 Nm using a wrench.

Caution: Proper torque of the connector, along with the new copper washers, prevents fluid leaks from the connection and is also necessary to avoid thread breakage in the caliper body.



Bleeding Procedure for Accossato Brake Caliper:

1. Remove the brake fluid reservoir cap and membrane from the brake pump. Refill the brake fluid reservoir with new oil to the required level.

   Caution: Ensure that the fluid in the system is compatible with the new fluid added to the reservoir; if not, replace it entirely.

2. Remove the rubber cap from the bleed screw (3) and attach a rubber hose (preferably transparent for monitoring fluid and air passage).

   Caution: Collect the fluid in a designated container for proper disposal.

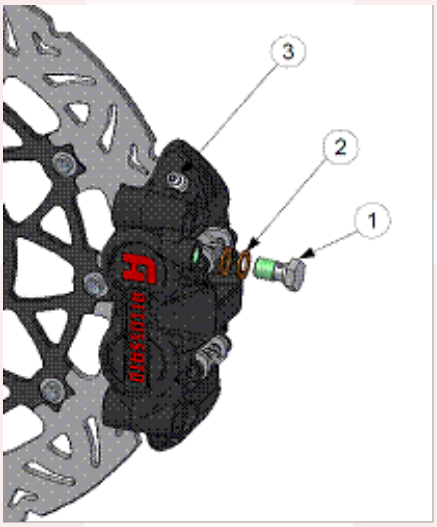
3. Perform the following procedure:

- Loosen the bleed screw (3).
- Pull the brake lever.
- After 2/3 seconds, close the bleed screw without releasing the lever.
- Release the brake lever. Repeat steps 1 to 4 several times.

4. With the bleed screw closed, the brake lever should become progressively harder to pull until, upon opening the bleed screw, only fluid comes out of the hose without the presence of air bubbles.

5. Remove the hose for oil recovery, tighten the bleed screw with a torque of 8-10 Nm. Clean the bleed screw (3) with a cloth and cover it with the rubber cap.

6. After completing this procedure, restore the oil level in the reservoir to the MAX level. Caution: During the bleeding process, it is necessary to monitor and, if necessary, restore the fluid level in the reservoir to prevent it from running out.



FAQ:

- How to handle a fall? As the radial caliper is a safety component, attempting to resume riding after a fall is strongly discouraged, especially if malfunctions of the caliper are suspected.

- Are there Accossato caliper overhaul kits? There is an official Accossato overhaul kit available for purchase. If non-official products are installed, the caliper immediately loses its warranty.

- What brake fluid should be used? Accossato recommends using DOT 4 Accossato Racing brake fluid, specifically designed for customers who demand maximum performance from their braking system. Exercise caution with different brake fluids on the market, especially high boiling point DOT 5.1 fluid, which should be removed immediately after racing or single use to prevent damage to the braking system seals.

- How much should I tighten the screw after bleeding? Accossato recommends tightening the bleed screw with a torque wrench to 8-10 Nm. Attempting to tighten the screw by hand without measuring the torque is not recommended. After bleeding and closing the bleed screw, blow compressed air around the screw to remove any trapped oil in the thread crests and the central 3mm diameter hole.