

# ACCROSSATO

## BRAKE CALIPER DATA SHEET



### 4 Reasons why you should choose an Accossato brake caliper

- 1) **Aesthetics:** we take care of every single aesthetic detail of the Accossato radial caliper.
- 2) **Range Available:** A wide range of different models, colours and distances to choose from.
- 3) **“Made in Italy” quality:** all radial brake calipers are completely made in Italy. Every single part is designed to deliver an improved braking performance.
- 4) **Controls:** we always control and test all radial calipers before mount and introduce them in the market.

### Models and how to use it

Accossato radial brake calipers are designing with the most advanced technology, using the best materials on the market.

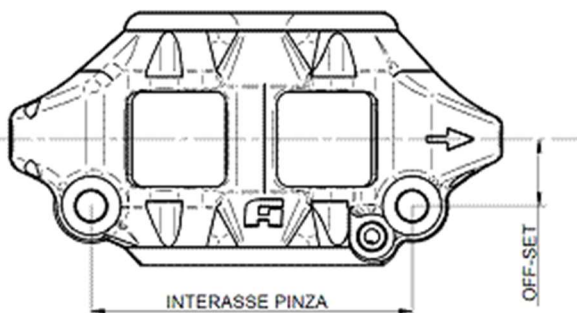
A clear example is given by the structure of the calipers CNC-worked with 5 axes. The shape of the calipers has been realised with the support of CAD research in order to obtain the lightest weight, the best rigidity of the body and the best heat loss capacity throughout a special treatment in hard oxidation.

During the machining, the body of the caliper is 100% controlled by the three-dimensional lab machines; in the next step, the product is oxidised throughout a special treatment in hard oxidation bestowing a long-lasting resistance.



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## Off-set distance of the brake caliper



When choosing a brake caliper, always verify the compatibility between the “distance” and “Off-set” with the and the brake rotors of the motorcycle.

Accossato offers calipers with the following distances:

- 108 mm
- 100 mm
- 60 mm

## Brake Caliper, 108 mm distance

**Code: PZ001 monoblock CNC-worked**

- **Technical features**

Distance: 108 mm

Off-set: 22,5 mm

Self-cooling pistons in titanium D34mm (4pcs)

Dust seals: NO

Brake pads not included. 4 pads per caliper

**Code: PZ010 monoblock CNC-worked**

- **Technical features**

Distance: 108mm

Off-Set: 22,5mm

Self-cooling pistons in titanium Ø34mm (2 pcs) + Ø38mm (2 pcs)

Pads: 2 pads per caliper

**Code: PZ002 monoblock forged caliper**

- **Technical features**

Distance: 108 mm

Off-set: 22,5 mm

Self-cooling pistons in titanium D 34mm (4pcs)

Dust seals: NO

Pads not included. 4 pads per caliper

**Code: PZ004 monoblock**

- **Technical features**

Distance: 108 mm

Off-set: 22,5 mm

Pistons in Ergal Aluminium D34mm (4 pcs)

Dust seals: Yes

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Pads 4 pcs pads per caliper

## **Brake calipers 100 mm distance**

**Code: PZ005 CNC-worked**

- **Technical features**

Distance: 100 mm

Off-set: 30 mm

Self-cooling pistons in titanium, 2 pcs D34mm +2 pcs D38mm

Dust Seals: No

Brake Pads not included 2 pads for caliper 2

**Code: PZ007 forged monoblock**

- **Technical features**

Distance: 100 mm

Off-set: 30 mm

Ergal aluminium pistons D34mm (2 pcs) + (2 pcs) D38mm

Dust Seals: Yes

Pads 2 pads each per caliper

## **Brake calipers 100 mm distance**

**Code: PZ008 monoblock CNC-worked**

- **Technical features**

Distance: 60 mm

Off-set: 20,5 mm

Self-cooling pistons in titanium, 2 pcs D34mm

Dust Seals: No

Pads not included 2 pcs per caliper

**Code: PZ009 CNC-worked**

- **Technical features**

Distance: 60mm

Off-set: 23,7 mm

Ergal aluminium pistons D34mm

Dust seals: Yes

Pads included 2 pcs per caliper

## **Warranty**

Accossato brake calipers are covered by a 24-month warranty starting from the date of invoice. Without these documents the warranty won't be valid.

## **Maintenance of Accossato radial brake caliper**

Maintenance on the Accossato caliper is carried out within a working week from the arrival of the radial caliper. Maintenance includes:

- Visual external inspection of the product
- Dismantling of the parts of the caliper
- Visual microscope inspection of all the components of the caliper
- Visual inspection inside the body of the caliper

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- Replacement of the seal dusts
- Assembly of all the parts
- Static test of the caliper
- Dynamic test of the caliper

The replaced parts are disposed and from the maintenance, the caliper acquires a 12-month warranty as stated by invoice. A further (second) maintenance will not extend the 12-month warranty of the product. The maintenance will not include replacement of other non-mentioned external parts. In case of falling, the maintenance is carried out only if the caliper can be fixed and come back to its original status, like a brand-new part.

## **Serial number of the brake calipers**

Accossato radial brake caliper is unique: indeed, it has a serial number, it is identifiable and different from the other radial calipers. The removal of the serial number will invalid warranty and maintenance.

## **How to replace Accossato brake calipers**

It is highly recommended to cover the parts under the caliper with a cloth or some absorbing paper to prevent any spill of brake fluid.

### ➤ **Dismantling**

Loose the screw without ruining the hoses after having dismantled the brake caliper.

**Caution:** during this operation, protect with a cloth all the parts of the motorcycle that could get in touch with the brake fluid.

Unscrew the locking screw from the fork leg and move the take the caliper.

**Caution:** these dismantling procedures must be carried out with the highest attention making sure the brake fluid doesn't get in touch with the parts of the vehicle that could be damaged (e.g., coated parts, parts in plastics and rubber).

To avoid any oil leak during the dismantling we recommend to keep the caliper higher than the rest of the braking system; rotate upward the caliper and its outlet fitting as much as possible Tap with a cloth or absorbing paper any oil leak.

Unscrew the outlet fitting (previously loosen).

**Caution:** immediately tap the hole with a cloth or some absorbing paper to avoid any oil leak, keeping the hole upward.

### ➤ **Mounting**

Manually fasten the outlet fitting (1) to the Accossato caliper.

**Caution:** to avoid any possible leak after the mounting it is highly recommended to replace the copper washers (2) with the new ones. Before fasten the fitting make sure it is compatible with the new brake caliper (M10x1 thread pitch).

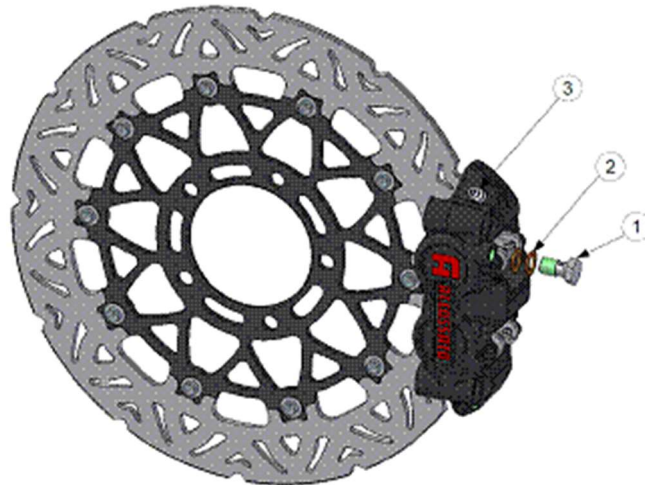
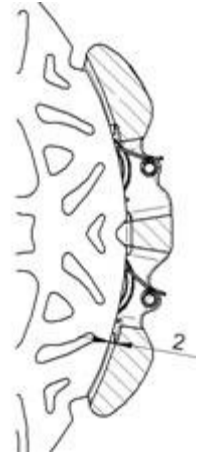
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Place the new caliper on the fork leg. Mount the caliper making sure the centre axis corresponds to the rotor's. A maximum difference of 0,15mm is admitted. Make sure there is a light of 2mm between the rotor and the caliper.

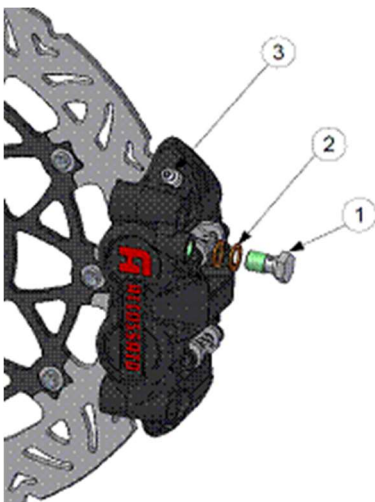
In case, you can use spacers to distance the brake caliper to the rotor. Fasten the screws with a torque wrench to the tightening torques as according to the instructions.

Fasten with a wrench the outlet fitting (1), that was previously tightened with a tightening torque equal to 20-23Nm.

**Caution:** a correct tightening torque prevents (together with new copper washers) from liquid leakage and it is mandatory to avoid break ups of the thread in the caliper body.



## ➤ How to bleed an Accossato caliper



Remove the cap of the brake fluid reservoir and the membrane of the brake master cylinder. Refresh with new oil the level of fluid in the reservoir.

**Caution:** make sure the fluid inside the braking system is compatible with the new fluid added into the

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reservoir – otherwise, replace it completely.

Remove the bleeding rubber cap (3) and connect it with a rubber tube (better if it's transparent so you can check the stream of the fluid and air).

**Caution:** collect the fluid in a specific container to ease its correct.

At this point you must follow this procedure:

- 1) Loosen the bleeding valve (3)
- 2) Pull the lever;
- 3) After 2/3 seconds, fasten the bleeding valve, without releasing the lever;
- 4) Release the lever

Repeat the steps from 1 to 4 times.

When the bleeding valve is fastened the lever has to be very hard to pull. When opening the valve, there will only be fluid in the small tube without any air bubble left.

Remove the tube to collect the oil, fasten the bleeding valve with 8-10Nm tightening torques.

Clean the drain cap (3) with a cloth and cover it with a rubber cap.

After this procedure you must restore the level of oil in the reservoir up to MAX level.

**Caution:** during the bleeding process you must always check and, if necessary, restore the fluid level in the reservoir to avoid it finishes.

## FAQ

### ▪ **What to do in case of fall?**

The radial brake caliper is a safety product. Accossato discourages to keep on riding after a fall, especially when you suspect or experience issues on its correct functioning.

### ▪ **Is there any repair kit for the Accossato caliper?**

Replacements can be purchased separately. Please note that in case of non-original parts mounted on the caliper, the product will not be covered by warranty.

### ▪ **What brake fluid should I use?**

Accossato suggests using DOT 4 Accossato Racing fluid, specially conceived to be used by the most demanding clients who desire a top performance braking process.

Accossato developers recommend extreme caution when using braking fluids available on the market.

More specifically, take extra care when using DOT 5.1 at boiling point: in fact, this fluid must be removed from the braking system soon after a competition and/or a single use. In case you fail to remove it, it may damage the seals of the braking system.

### ▪ **How much should I fasten the bleeding valve?**

Accossato recommends to fasten the screw with a torque wrench at 8-10Nm. We discourage to try to fasten the screw with your hands without measuring the tightening. After bleeding the caliper and tight the valve, blow some compressed air around the screw in order to let the oil out that may be left in the crest of the thread and in the central hole with a diameter of 3mm.