



## BREMBO GUIDELINES FOR FITTING AND MAINTENANCE: TWO PIECE BRAKE DISCS

One of the leading trends that is affecting the automotive industry is the shift towards environmental sustainability. One of Brembo's solutions for sustainability is the two-piece brake disc range containing floating, riveted and co-cast options, which has real benefits compared to an integral (one piece) brake disc. The two-piece solutions, are manufactured with an aluminium or steel hub and a cast iron braking surface. The aluminium or steel hub guarantees a reduction of about 15% -30% in the weight of the disc, compared to an integrated ( 1 piece ) disc of the same size. By reducing the weight of a disc, this leads to a reduction in the fuel consumption and emissions of the car. This also improves the handling of the car, which results in more precise and stable vehicle dynamics. To provide further weight savings, the steel hat of both riveted and co-cast brake discs, **is manufactured to a thickness of 2.5 mm**, instead of the 7.5-9 mm of a conventional cast iron housing, with the same level of performance.



### Perfect replacement guidelines for two-piece discs

Bearing in mind the difference in design and materials that are used on two-piece brake discs, there are some crucial points to take note when handling and fitting these discs.

- Due to the decreased thickness of the disc hat, **DO NOT** pick up or handle these brake discs by the steel hat as this might cause minute distortions and lead to excessive lateral runout and the onset of brake judder.
- Thoroughly clean the surface of the wheel hub and the disc before installation.
- **DO NOT** turn the steering wheel by holding the disc/caliper. This will lead to distortion to the reduced thickness, lightweight steel hat.
- When refitting the wheel, follow the correct torque sequence as well as the manufacturer's recommended tightening torque.
- Tighten the wheel screws in three steps.
  1. Position by hand
  2. Initial torque 75 Nm
  3. Final torque (refer to the car manufacturer's instructions)
- Only original **OE quality rims** should be used to prevent disc deformation.

Please take note: an increase in noise, vibrations or harshness could be the outcome of not following the above fitting guidelines, or replacing these discs with integral discs. For a more detailed version of the above please visit the support area in [Bremboparts.com](http://Bremboparts.com).