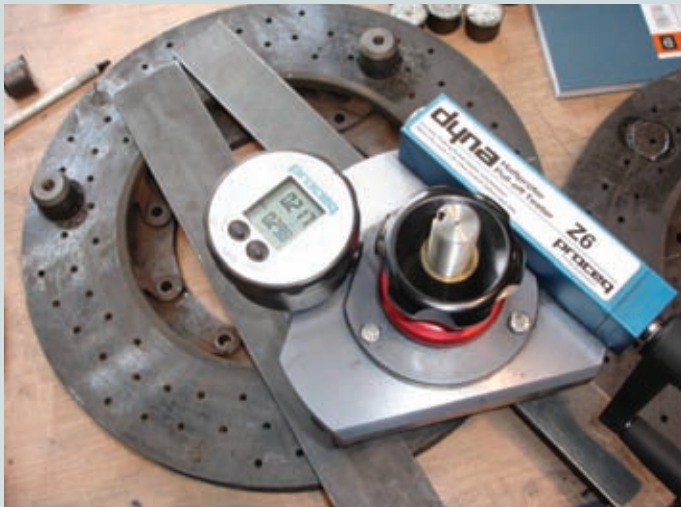


application note



Pull-strength Testing

Brembo SGL Carbon Ceramic Brakes GmbH

Material Quality Control during the manufacturing process

To achieve the state of the art friction behavior of their brakes, Brembo SGL Carbon Ceramic Brakes GmbH applies a friction layer to their carbon ceramic brake discs. The quality of the application process between friction layer and disc body is controlled on a regular basis.

As a supplier of safety relevant parts for the automotive industry, Brembo SGL Carbon Ceramic Brakes GmbH is very dedicated to ensuring the quality of their products and services.

Pull-strength measures are performed to control the quality of the application process of the friction layer within development projects.

Application

Brembo SGL Carbon Ceramic Brakes GmbH uses the DYNA Z6 for performing destructive tests on carbon-ceramic brake discs. This inspection process is necessary to measure the application quality between friction layers and brake disc body.

The tests could also be implemented by a static push-pull device, but the DYNA Z6 was chosen due to its low cost and ease of use: it makes the task of pull-strength testing a simple and efficient method, saving time and money. Used to verify the bonding quality control of industrial products, the pull-strength tester measures the constraint (MPa) applied on a stamp until debonding.

Customer Quote

"With the acquisition of Dyna Z6 our work became faster and easier, and as it does not use large physical space, it provides the possibility to measure on-site in the production."

Product - Development, Brembo SGL Carbon Ceramic Brakes GmbH, Meitingen, Germany

*Brembo SGL Carbon Ceramic Brakes GmbH
– Proceq customer since 2008*

Profile

Customer

Brembo SGL Carbon Ceramic Brakes GmbH is a supplier for the premium automobile industry and is acting as a partner for development, production and sales of carbon ceramic brakes and systems. Customers are for example AMG, AUDI, Aston Martin, Bentley, Bugatti, GM, Ferrari, Lamorghini, Porsche.

Employees

Approximately 350 employees in Germany and Italy

Requirements

- Fast and accurate pull-strength measurements
- Testing of large parts
- Low cost of investment
- A portable alternative to inflexible push-pull standard devices

Proceq Product

Dyna Z6

Benefits to the Customer

- Accurate and easy to use
- Cost saving
- Suitable for pull-strength testing of all carbon-ceramic brake discs
- Pull-strength testing can be performed directly on-site