

ABOUT US

- Founded in 2006 as engineering service provider
- Since 2009 specialized on development and manufacturing of testing devices for dental material
- From 2012 installation of a testing lab to analyze materials and components
- Participating in ISO working groups for standardization of testing methods
- Accreditation as testing lab for medical products according to ISO/IEC 17025 achieved in 2022
- Customers: Manufacturers of medical products as well as universities



**Dipl.-Ing. (FH)
Sebastian Duy**

General Manager



Dr. Daniela Duy

Scientific consultant



M.Sc. Niclas Albrecht

Head of Testing Lab

GET IN TOUCH WITH US!

Among others we cover the following test methods:

ISO 6872:2019
ISO 10477:2017
ISO 12737
ISO 10555-1
ISO 80369
ISO 20795-1, -2
ISO 17254
ISO 21606
ISO 28399:2021

More examples can be found on our website:

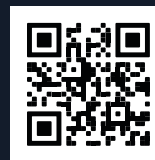
www.sdm-gmbh.de



+49 8063 207 45 93



info@sdm-gmbh.de



SDM SD Mechatronik
MATERIAL TESTING

ACCREDITED TESTING LAB FOR MEDICAL PRODUCTS

Independent testing
under the terms of ISO/IEC 17025

Supporting

- MDR & FDA Certification
- CE Marking
- QA for Notified Body
- R&D Testing



ACCREDITED TESTING LABORATORY FOR DENTAL IMPLANTS

DIN EN ISO 14801:2017-03

The DIN EN ISO 14801 describes a method for fatigue testing of endosseous dental implants. The result is usually a load-cycle diagram showing the load vs. cycles survived. Other methods like staircase testing is also possible.

Our services:

- Fast conduction of tests as 15 test benches are available
- Static test for initial load level included
- All specimen are optically measured before and after testing to ensure detection of failures
- ISO/IEC 17025 Accredited testing
- Additional analysis options available (e.g. μ CT for internal analysis)
- Microleakage testing



CHEWING SIMULATION ON RESTORATIVE DENTAL MATERIAL

5/10-Year Study
supporting FDA approval

The SD Mechatronik Chewing simulation provides a method for fatigue testing of restorative material. It can be used for crowns, bridges, 3D-printed materials and other applications like splints.

Our services:

- Short testing time as 24 specimen can be tested at the same time
- Results help proving claims for MDR/FDA certifications (e.g. long-term indication)
- Method is justified by many scientific articles
- Additionally testing (e.g. fracture load) and analysis (e.g. abrasion) is possible



ACCREDITED TESTING LABORATORY FOR BREATHING SETS

DIN EN ISO 5367:2015-02

DIN EN ISO 5367 provides several testing methods and requirements that breathing sets and connectors need to comply with. We offer testing security of connectors, leakage, resistance to flow and compliance.

Our services:

- ISO/IEC 17025 Accredited testing
- Additional analysis options available

