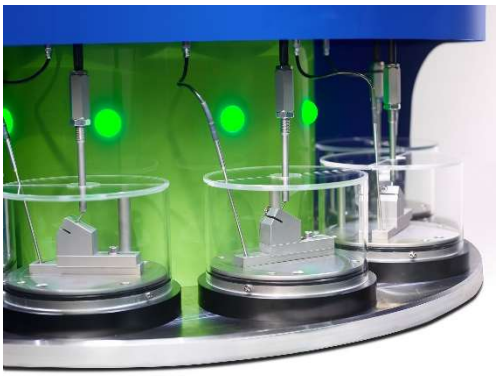
DYNAdent 14801

for dynamic fatique test of dental implants according to DIN EN ISO 14801



The compact, easy-to-use DYNAdent testing machines for the dynamic testing of dental implants are specially designed to meet the requirements of DIN EN ISO 14801.

The load subjected to each specimen corresponds exactly to the geometry specified by the norm with regard to the load angle, the type of load angle, the type of load application and the specimen holder.

DYNA5dent

For simultaneous and independent testing of up to five implants

DYNA1dent

For single testing

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Fast testing with DYNA5dent

The DYNA5dent system tests up to five implants simultaneously. This is if several million load cycles are required and at the same time a certain sample size is needed.
Thus, the „big brother“ of the DYNA1dent reduces the testing time by 80 percent.

Ideal for test lab

DYNA-MESS has developed the „DYNAdent“ series exclusively for testing in accordance to DIN EN ISO 14801. The machines are electrically powered and do not require compressed air.
They are compact, require only a fraction of the space necessary for usual testing machines, and driven by electrical current only.

Flexibility

The DYNA5dent is very flexible to use, since all five testing stations are independent to each user.

DYNA5dent with optional accessories

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The technology in detail

The base plates on which the specimens are mounted are designed as basins which can be filled with a saline solution. Thus, the test can be carried out at a frequency of 2 Hz and a temperature of 37 ° C under in-vivo conditions. Testing at 15 Hz without liquid is equally possible, in which case the basin serves as a protective housing.

In accordance to the norm, the implants together with the abutment, are subjected to oblique loading, as can occur in-vivo. Hence DYNAMESS offers a sliding plate which ensures that the load exerted on the specimen under test is free of lateral forces and prevent the generation of constraining forces.

The load measurement cell is protectively integrated into the head of the testing machine. The machine can be equipped with sample holders for different inclinations of specimens.

Efficient

Unlike universal testing machines, which have traditionally beeing used for this purpose, the DYNAdent-Series is devised in an optimum force range, thereby required significantly less energy as well as ensuring accuracy for all testing specification by the norm.
Under repeated oscillation the machines can enrage a sinusoidal force up to 600 N.

Economically

The low energy consumption and media requisition as well as its small size makes its operation very economical. In view of cost efficiency, the acquisition of the DYNA5dent for five implants is significantly cheaper than five single DYNA1dent.

Easy to handle

The test system uses DYNA-MESS acclaimed and very user-friendly DYNATCC software. The results are displayed graphically in form of distance-time diagramms and as reports in PDF format as well.
The machines are network compatible and provides the raw data in TDM or ASCII format.

Commissioning hall of DYNA-MESS Prüfsysteme

About DYNA-MESS

DYNA-MESS Prüfsysteme GmbH was founded in 1985 in Aachen. The company designs and builds machines (tension, compression, bending and torsion) for the static and dynamic testing of materials and components.

The roots of DYNA-MESS lie in the rope and lifting technology. The company received its first orders for the inspection of wire and synthetic fiber ropes as well as slings and chains.
This has resulted in the development of a wide range of machines for material and component testing.

As a manufacturer of testing equipment for mechanical testing, DYNA-MESS focuses on the development, conception and realization of customized testing machines.
The focus is on the dynamic component testing, which is carried out in the form of continuous vibration tests or continuous function tests, as well as on special machines for special applications.

For conventional testing tasks, DYNA-MESS has standard series of testing machines.