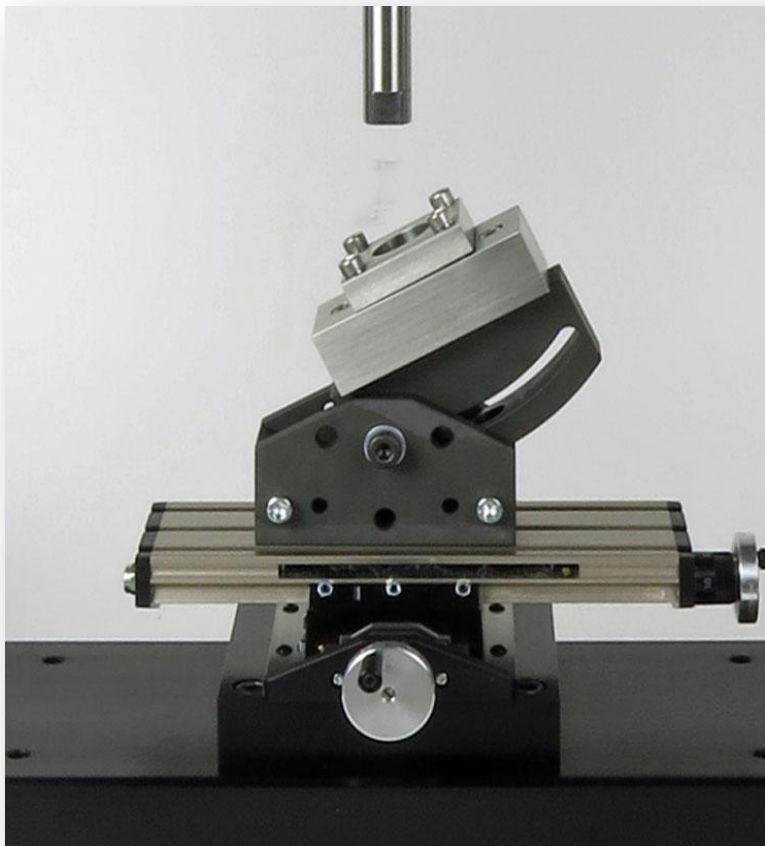


Dental Implant Fatigue Test Fixtures per ISO 14801

ISO 14801 describes test equipment requirements for performing dynamic fatigue tests for endosseous dental implants. The standard describes test fixture requirements that the GISO 14801 fixture product line meets. The fixture product line consists of two different fixture designs.

GISO 14801 meets the basic and exact needs of ISO 14801. It includes a fixed 30 degree angle and a hemispherical loading member with a radius of 2.5mm to be mounted on the implants exposed end to avoid lateral stresses.

GISO 14801XY features includes an adjustable angle and linear slides that allow the sample position to be adjusted linearly in X or Y dimension.



GISO 14801XY features the ability to adjust the test sample angle and the location of the implant under the indenter head of the test machine.



Hemispherical loading member

In ISO 14801, the test machine loads the sample with an indenter or flat punch fixture. The angle of inclination of the implant with respect to the load axis is 30 degrees. The implant is fastened at a specified (3 mm) distance from the apex from the level of the nominal bone or the treated surface of the implant. The implant holder and punch are made of stainless steel in the case of testing in a Biobath saline bath. Otherwise the standard specifies the material requirements for those fixtures. The implant is fastened to the holder base by tightening plate.



BASIC GISO 14801 Fixture