JWE GmbH

Fatigue Resistance Test   ISO 20126 5.5
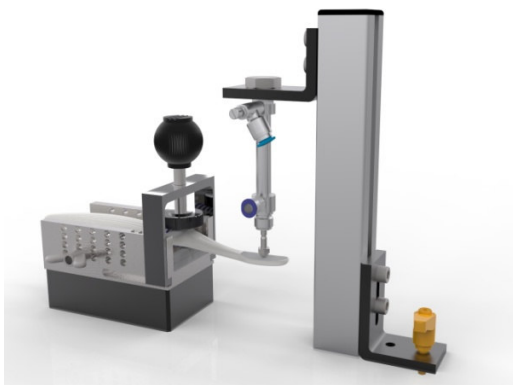
Function

The toothbrush standard ISO 20126 includes testing manual toothbrushes for continuous loads. The material fatigue of the toothbrush is tested using a pulsating load of 0 - 4 N over 75,000 cycles on the toothbrush head. Up to 8 toothbrushes can be tested with the test stand. The clamping devices allow different toothbrushes to be fixed, including electric toothbrushes. The test load is applied pneumatically and can be adjusted to the test using a precision pressure regulator. The number of test cycles and the cycle time can be set in the software. If the brush head breaks off, this is detected by a sensor on the pneumatic cylinder and the test at the test station is stopped. The cycles passed by each individual test specimen are displayed on the monitor. The device is operated via a touchscreen. A user-friendly user interface allows data to be entered, the measurement to be controlled and the ini file to be set.

A force sensor can be supplied to check the force.

The device can also be equipped with a housing with electronic door monitoring. (ISO 13849)

Specification

Dimension (W,D,H) ca.	920, 740, 540 mm
Weight	61 kg
Number of Stations	8
Cycle Time	50 ± 10 Cycles/min
Load	up to 10 N
Power	115/230 (50/60 Hz)
Air Pressure	4 bar, extern, oil-free, anhydrous

Ordering

Test Device	8 Station	305-020

Options

Force sensor with factory calibration, display and desktop housing	305-800
Enclosure	305-050

Scope of Delivery

1 Basic Equipment
1 Power Cable CEE 16A (5 m)
1 Operating Instructions

Conditions of Delivery

Delivery: DAP
Shipping time: by arrangement.

Contact

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The illustrations may differ from the actual equipment.
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