



JWE GmbH

Fatigue Resistance Test

ISO 20126 5.5

Function

The ISO 20126 contains the durability test of manual toothbrushes.

Consideration is being given to material fatigue of the toothbrush with a pulsating load 0-4 N over 75.000 cycles on the toothbrush head. Test samples are 8 or 16 brushes.

The test device is sized to 4 or 8 test stations. Various jigs allow the fixation of different toothbrushes, also electric toothbrushes. The test load is applied pneumatically and can be adjusted by a precision pressure controller (on request a gravimetric load can be supplied). The number of test cycles and the cycle time can be set in the software. The corresponding test station with a brush fracture in case of failure of the test specimen is stopped. The passing cycles of each test sample are displayed on the monitor.

The device is operated via a touchscreen. An easy user interface allows the entry of data, control of the measurement, as well as setting the ini file.

Enclosure:

For this method a compressed air supply of min 300 l / min is required.

Options

If no compressed air is available, we also offer the version with a gravimetric test load. The varying load generated by an electric linear actuator.



Specification

Dimension (W,D,H) ca.	1020,700, 720 mm
Weight	45 kg
Number of Stations	4/8
Cycle Time	50 ± 10 Cycles/min
Load	0,5 -10 N
Power	115/230 (50/60 Hz)
Air Pressure	4 bar, extern, oil-free, anhydrous

Ordering

Test Device	4 Station	305-004
Test Device	8 Station	305-008

Options

Fixture electrical Toothbrush	305-012
gravimetric Load	305-015

Scope of Delivery

- 1 Basic Equipment
- 1 Power Cable CEE 16A (5 m)
- 2 Allen Key
- 1 Operating Instructions

Conditions of Delivery

Delivery: EXW

Shipping time: by arrangement.

Contact

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The illustrations may differ from the actual equipment.

All data without obligation and not-binding.