

DUPLICATE





Fraunhofer TESTED® DEVICE Desoutter GmbH Screwdriver ERS2 Report No. DE 1303-642

Statement of Qualification

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Customer:

Desoutter GmbH Edmund-Seng-Straße 3-5 63477 Maintal Germany

Component tested:

Category:	Working Place and Operator
Subcategory:	Work Equipment
Туре:	Screwdriver ERS2

Random check measurements of particle emission (airborne) at representative points

Test procedure:	According to VDI 2083 Part 9.1 Each standard states refers to the version valid at the time of testing.
Measuring instruments:	Optical Particle Counter: Model LasAir II 110 manufactured by PMS with measuring channels of $\ge 0.1 \mu\text{m}, \ge 0.2 \mu\text{m}, \ge 0.3 \mu\text{m}, \ge 0.5 \mu\text{m}, \ge 1.0 \mu\text{m}$ and $\ge 5.0 \mu\text{m}$
Test parameters of the test environment:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1 Air flow velocity:
Test parameters of the test execution:	 Tightening's/min:

Fraunhofer

IPA

Test results / Classification: (according to ISO 14644-1)

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years. Further information: www.tested-device.com

<u>Stuttgart, Mai 23, 2013</u> Place, Date

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany



The Screwdriver ERS2 is suitable for use in cleanrooms fulfilling Air Cleanliness Class 6.

The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

<u>i. A.</u> Project manager