IPA

Cleanroom (atmospheric)

valid until: October 1, 2030

Fraunhofer

TESTED®
DEVICE

Atlas Copco IT AB
QMT61-500-I06
Report No. AT 2509-1670

Statement of
Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)

Fraunhofer
IPA

Fraunhofer
IPA

Statement of Qualification · Single product

Customer

Atlas Copco Industrial Technique AB
Sickla Industriväg 15
10523 Stockholm
Sweden

Tested product

Category: Working Place and Operator

Subcategory: Work Equipment

Product name: Electrical Screwdriver-Microtorque Fixtured QMT61-500-I06 (manufacturing date: week 26/2024; color: black; article number: 8432 0843 90; serial number: Z6590111)
in combination with:
- MT FOCUS 6000 (manufacturing date: 3/2024; color: black; article number: 8432 0851 00; serial number: E5380005)
- Power Supply Unit 950 (manufacturing date: week 11/2023; color: black; article number: 8432 0840 07; serial number: A5450020)

Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions

Standards/guidelines: ISO 14644-1, -14
The norms stated generally refer to the version valid at the time of the tests.

Test equipment: Optical particle counter:
LasAir II 110 and LasAir III 110 with measuring ranges ≥ 0.1 µm, ≥ 0.2 µm, ≥ 0.3 µm, ≥ 0.5 µm, ≥ 1.0 µm and ≥ 5.0 µm

Test environment parameters:
- Cleanroom Air Cleanliness Class (according to ISO 14644-1): ..... ISO 1
- Airflow velocity: ..... 0.45 m/s
- Airflow pattern: ..... vertical laminar flow
- Room temperature: ..... 22 °C ± 0.5 °C
- Relative humidity: ..... 45 % ± 5 %

Test procedure parameters:
- Installation position: ..... horizontal
- Velocity: ..... v = 600 rpm
- Cycle: ..... movement = 15 s; break = 5 s

Test result / Classification

The Electrical Screwdriver-Microtorque Fixtured QMT61-500-I06 in combination with controller MT FOCUS 6000 and Power Supply Unit 950 is suitable for use under the specified test parameters (room temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Screwdriver: • Installation position = horizontal • Max. velocity = 600 rpm • Movement = 15 s; Break = 5 s	6
Controller MT FOCUS 6000	3
Power Supply Unit 950	5
Overall result	**6**

Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion etc. can influence the test result.

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Business unit
Testing and Certification

Nobelstrasse 12
70569 Stuttgart
Germany

AT 2509-1670 — Report No. first document
Stuttgart, October 1, 2025 — Place, date of first document issued
-- — Report No. current document
-- — Place, current date

on behalf of
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

This document only applies to the named product in its original state and is valid for a period of 5 years from the date the first document was issued. The document can be verified under **www.tested-device.com**.