



Fraunhofer

**TESTED[®]
DEVICE**

Atlas Copco IT AB
ETD MT61-500-I06

Report No. AT 2503-1606

DUPLICATE

Statement of
Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)

Customer	Atlas Copco Industrial Technique AB Sickla Industriväg 15 10523 Stockholm Sweden
Tested product	
Category:	Working Place and Operator
Subcategory:	Work Equipment
Product name:	ETD MT61-500-I06 (manufacturing date: week 10/2025; color: black; article number: 8432 0845 90; serial number: Z2503030) in combination with: <ul style="list-style-type: none">MT FOCUS 6000 (manufacturing date: week 14/2017; color: black; article number: 8432 0851 00; serial number: B9480016)Power Supply Unit 950 (manufacturing date: week 11/2023; color: black; article number: 8432 0840 07; serial number: A5450031)

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 $\geq 0.1\text{ }\mu\text{m}$, $\geq 0.2\text{ }\mu\text{m}$, $\geq 0.3\text{ }\mu\text{m}$, $\geq 0.5\text{ }\mu\text{m}$, $\geq 1.0\text{ }\mu\text{m}$ and $\geq 5.0\text{ }\mu\text{m}$
Test environment parameters:	<ul style="list-style-type: none">Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1Airflow velocity:.....0.45 m/sAirflow pattern:..... vertical laminar flowRoom temperature:22 °C \pm 0.5 °CRelative humidity: 45 % \pm 5 %
Test procedure parameters:	<ul style="list-style-type: none">Installation position:horizontalVelocity: v = 600 rpmCycle: movement = 15 s; break = 5 s

Test result / Classification	The screwdriver ETD MT61-500-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 \pm 0.5 °C; relative humidity: 45 % \pm 5 %) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:
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Test parameter(s)	Air Cleanlines Class
Screwdriver: <ul style="list-style-type: none">Installation position = horizontalMax. velocity = 600 rpmMovement = 15 s; Break = 5 s	7
Controller MT FOCUS 6000	1
Power supply Unit 950	4
Overall result	7

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	AT 2503-1606 Report No. first document	Stuttgart, April 30, 2025 Place, date of first document issued
Business unit Testing and Certification	-- Report No. current document	-- Place, current date
Nobelstrasse 12 70569 Stuttgart Germany	on behalf of Dr.-Ing. Frank Bürger, head of business unit Testing and Certification	