





Fraunhofer TESTED® DEVICE Atlas Copco IT AB QMC21-25-HIM4-QS Report No. AT 2108-1250

Statement of Qualification

Single product Particle Emission

Statement of Qualification • Single product

Customer	Atlas Copco Industrial Technique AB Sickla Industriväg 19 13154 Stockholm Sweden	Test result / Classification
Component tested		
Category:	Working Place and Operator	
Subcategory:	Work Equipment	
Product name:	 Current Controlled Screwdriver QMC21-25-HM4-QS (manufacturing date: week 28/2021; article number: 8432084427; serial number: B3600315) in combination with: Control and drive unit MT FOCUS 6000 (manufacturing date: week 14/2017; article number: 8432 0851 00; serial number: B9480028) MT Power Supply (MT PS 180W-36V) (manufacturing date: week 26/2018; article number: 	

8432 0840 02; serial number: B0600263)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.	
Test devices:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu m$, $\geq 0.2 \mu m$, $\geq 0.3 \mu m$, $\geq 0.5 \mu m$, $\geq 1.0 \mu m$ and $\geq 5.0 \mu m$	
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):	
Test procedure parameters:	Installation position:	

• Interval: ...movement: 15s; break: 5s 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 1605-823 Stuttgart, July 11, 2016 Report No. first document Place, date of first document issued

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany





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When operated under the specified test conditions, the Current Controlled Screwdriver QMC21-25-HM4-QS in combination with MT FOCUS 6000 and a MT PS 180W-36V is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

eter(s)	Air Cleanlines Class
position: horizontal 000 rpm :: 15 s; break: 5 s	5
	1
у	1
ult	5

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

> Stuttgart, September 14, 2021 Place, current date

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