





## Fraunhofer TESTED® DEVICE Atlas Copco IT AB ETD M20 ABL V2 Report No. AT 2408-1545

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)

## **Statement of Qualification** • Single product

Customer	Atlas Copco Industrial Technique AB Sickla Industriväg 15 105 23 Stockholm Sweden	Test result / Classification	When operated under the specified test conditions 22 °C $\pm$ 0.5 °C; relative humidity: 45 % $\pm$ 5 %), the s V2 in combination with controller and power supp anrooms fulfilling the specifications of the followin according to ISO 14644-1:	crewdriver ETD M20 ABL Ily is suitable for use in cle-
Component tested			Test parameter(s)	Air Cleanlines Class
Category:	Working Place and Operator		Screwdriver: • Installation position = horizontal • Velocity = 900 rpm	4
Subcategory:	Work Equipment		<ul> <li>Cycle = movement: 15s</li> <li>Break between cycles = 5s</li> </ul>	
Product name:	ETD M20 ABL V2 (manufacturing date: week 44/2023; color: black; article number:		Controller	3
	8432 0815 21; serial number: C5761530) in combination with:		Power supply	3
	Controller MT Focus 6000		Overall result	4
	<ul> <li>(manufacturing date: week 35/2020; color: black; article number: 8432 0851 00; serial number: C2690001)</li> <li>MT Power Supply (MT PS 180W-36V) (manufacturing date: week 22/2023; color: black; article number: 8432 0840 02; serial number: B5560964)</li> </ul>		Please note: Transport damages, incorrect installati behavior, corrosion etc. can influence the test resu	
Random sampling of particle emissions (ai	irborne) 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 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:	<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1):</li></ul>			
	<ul> <li>Room temperature:</li></ul>	and international standards. In cases where no r	tests are calibrated at regular intervals; their results can be national standards exist, the test procedure implemented co the test. The relevant documentation can be viewed on red	omplies with the technical
Test procedure parameters:	<ul> <li>Installation position:</li></ul>	Detailed information and parameters of the test	environment can be found in the Fraunhofer IPA test repo	rt.
		Department of Ultraclean Technology and Micromanufacturing AT Rep	T 1907-1122       Stuttgart, October 8, 2019         port No. first document       Place, date of first document issued         T 2408-1545       Stuttgart, October 30, 2024         port No. current document       Place, current date	This document only applies to the named product in its original stat and is valid for a period o 5 years from the current date the document was issued. The document car be verified under
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on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

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