

## DUPLICATE





## Fraunhofer TESTED® DEVICE Atlas Copco IT AB ETD MT21-10-HIM4 Report No. AT 2307-1439

Statement of Qualification

Single product
Particle Emission

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

Customer	Atlas Copco Industrial Technique AB Sickla Industriväg 15 SE-105 23 Stockholm Sweden	Test result / Classification	When operated under the specified test conditions, the Transducerized Screwdriver ETD MT21-10-HM4 in combination with Control and drive unit MT Focus 6000 and MT Power Supply is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:	
Component tested			Test parameter(s)	Air Cleanlines Class
Category:	Working Place and Operator		Screwdriver: Installation position = horizontal Frequency = 2000/min	8
Subcategory:	Work Equipment		Cycle = movement: 15s; pause: 5s	4
Product name:	Transducerized Screwdriver ETD MT21-10-HM4 (manufacturing date: week 21/2023; color: black; serial number: B5550107)		Control and drive unit MT Focus 6000 MT Power Supply	1
	<ul> <li>in combination with:</li> <li>Control and drive unit MT Focus 6000 (manufacturing date: week 35/2020; color: black; article number:</li> </ul>		Overall result	8
	<ul> <li>8432 0851 00; serial number: C2690001)</li> <li>MT Power Supply (manufacturing date: week 41/2020; color: black; article number:</li></ul>		Please note: Transport damages, incorrect insta behavior, etc. can influence the test result.	llation, oil leakage, aging
Random sampling of particle emissions (airbo	rne) 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:	<ul> <li>Cleanroom Air Cleanliness Class (according to ISO 14644-1):</li></ul>	-	ication tests are calibrated at regular intervals; their results car	
Test procedure parameters:	<ul> <li>Installation position:</li></ul>	regulations and norms applicable at the ti	re no national standards exist, the test procedure implemente me of the test. The relevant documentation can be viewed or ne test environment can be found in the Fraunhofer IPA test re	n request at any time.
		Fraunhofer Institute for Manufacturing Engineering and Automation IPA	AT 1804-1031 Report No. first document Stuttgart, April 18, 2018 Place, date of first document issued	This document only applies to the named product in its original stat and is valid for a period o 5 years from the current
		Department of Ultraclean Technology and Micromanufacturing	AT 2307-1439 Stuttgart, August 25, 2023 Report No. current document Place, current date	date the document was issued. The document car be verified under
	🖉 Fraunhofer	Nobelstrasse 12 70569 Stuttgart	on behalf of Ron Bring	www.tested-device.con

Germany



on behalf of Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

 $\sim$ 

state od of ent as can com.