





Fraunhofer TESTED[®] DEVICE Atlas Copco IT AB ICB-A21-07-i06-HIMI-H Report No. AT 2309-1455

Statement of Qualification

Single product
Particle Emission

Statement of Qualification • Single product

Customer	Atlas Copco Industrial Technique AB Sickla Industriväg 19, Nacka 105 23 Stockholm Sweden	Test result / Classification	When operated under the specified test conc trunner ICB-A21-07-i06-HMI-H in combination and Battery 14V is suitable for use in cleanrow of the following Air Cleanliness Classes accor	on with Power Supply Unit 950 oms fulfilling the specifications
			Test parameter(s)	Air Cleanlines Class
Component tested			Screwdriver (with Power supply)	
Category:	Working Place and Operator		Installation position: horizontal $v_1 = 200 \text{ rpm}; v_2 = 50 \text{ rpm}$	6
Subcategory:	Work Equipment		Screwdriver (with battery) Installation position: horizontal	7
Product name:	Battery-powered Nutrunner ICB-A21-07-i06-HMI-H (manufacturing date: week 41/2023; color: black with yellow and silver		$v_1 = 200 \text{ rpm}; v_2 = 50 \text{ rpm}$	4
	elements; article number: 8436002708; serial number: A5721994)		Power supply	1
	in combination with:		Overall result	7
	Power Supply Unit 950			
	(manufacturing date: week 20/2023; color: black; article number:		Please note: Transport damages, incorrect ins	
	8432084006; serial number: A4540191) • Battery 14V		behavior, corrosion etc. can influence the test	t result.
	(manufacturing date: week 29/2023; color: black with yellow elements;			
	article number: 4211613002; serial number: C5630273/C5630280)			
Random sampling of particle emissions (airborn				
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:			
lest devices.	LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu\text{m}$, $\geq 0.2 \mu\text{m}$,			
	\geq 0.3 µm, \geq 0.5 µm, \geq 1.0 µm and \geq 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			
	• Temperature:	The measuring devices used for the qualification to	ests are calibrated at regular intervals; their results o	can be traced back to national
	• Relative humidity:		tional standards exist, the test procedure implement	
		regulations and norms applicable at the time of th	ne test. The relevant documentation can be viewed	on request at any time.
Test procedure parameters:	Installation position:			
	Step 1:	Detailed information and parameters of the test e	nvironment can be found in the Fraunhofer IPA test	report.
	• Velocity:			
	• Target angle:			
	• Break:			This document only
	• break			applies to the named
	• Velocity:	Fraunhofer Institute for Manufacturing		product in its original state
	• Target angle:	5	2309-1455 Stuttgart, June 28, 2024	and is valid for a period of
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		Department of Ultraclean Technology		first document was issued.
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Germany



		This document only
		applies to the named
		product in its original state
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		first document was issued.
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on behalf of RCC	Bin	www.tested-device.com.
DrIng. Frank Bürger, Project Ma	nager Fraunhofer IPA	