





Fraunhofer TESTED® DEVICE HIWIN GmbH Linear table HT200B Report No. HI 2504-1621

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)

Statement of Qualification • Single product

Customer	HIWIN GmbH Brücklesbünd 1 77654 Offenburg Germany	Test result / Classification	The linear table HT200B with profile rail QHH20 is suitable for use under the specified test parameters (room temperature: $22 \degree C \pm 0.5 \degree C$; relative humidity: $45 \% \pm 5 \%$) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:
To stard any short			Test parameter(s) Air Cleanlines Class
Tested product			$v_1 = 0.5 \text{ m/s}; a_1 = 1.0 \text{ m/s}^2;$ without suction 5
Category:	Automation Components		$v_2 = 1.0 \text{ m/s}; a_2 = 2.0 \text{ m/s}^2;$ without suction 6
Subcategory:	Linear Units		$v_3 = 1.5 \text{ m/s}; a_3 = 3.0 \text{ m/s}^2;$ without suction 6
Product name:	Linear table HT200B with profile rail QHH20 (manufacturing date: 3/2025; color: aluminium silver; type: HT200B184N1000SNNNRHW24G0805-X; weight: 39kg; article number: 80158104; serial number: HSN0000039087)		Overall result6Please note: Transport damages, incorrect installation, oil leakage, aging behavior, corrosion etc. can influence the test result.
Random sampling of particle emissions (air	borne) 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 $\ge 0.1 \mu\text{m}$, $\ge 0.2 \mu\text{m}$, $\ge 0.3 \mu\text{m}$, $\ge 0.5 \mu\text{m}$, $\ge 1.0 \mu\text{m}$ and $\ge 5.0 \mu\text{m}$		
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):		
Test procedure parameters:	• Installation position:	and international standards. In cases where no na	tests are calibrated at regular intervals; their results can be traced back to national ational standards exist, the test procedure implemented complies with the technical the test. The relevant documentation can be viewed on request at any time.
	$v_3 = 1.5 \text{ m/s}, a_3 = 5.0 \text{ m/s}, vithout Succion$	Detailed information and parameters of the test of	environment can be found in the Fraunhofer IPA test report.
			2504-1621Stuttgart, May 28, 2025This document only applies to the named product in its original sta and is valid for a period 5 years from the date th



Business unit Testing and Certification

Nobelstrasse 12 70569 Stuttgart Germany

on behalf of Dr.-Ing. Frank Bürger, head of busin

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Stuttgart, May 28, 2025	product in its original state and is valid for a period of
Place, date of first document issued	5 years from the date the first document was issued The document can be
Place, current date	verified under www.tested-device.con
ess unit Testing and Certification	