



valid until: December 15, 2028

Fraunhofer

TESTED[®] DEVICE

HIWIN GmbH
HT200LA22N1000SANDF
Report No. HI 2203-1305

Single product Particle Emission

Qualification Certificate

This is to certify that the product mentioned above, provided by

HIWIN GmbH
Offenburg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number HI 2203-1305.

The linear motor axis HT200LA22N1000SANDF was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.1 \text{ m/s}$; $a = 10 \text{ m/s}^2$; without cover Energy chain with cables	4
	2
$v_2 = 0.5 \text{ m/s}$; $a = 10 \text{ m/s}^2$; without cover Energy chain with cables	5
	4
$v_3 = 1.0 \text{ m/s}$; $a = 10 \text{ m/s}^2$; without cover Energy chain with cables	5
	4
Overall result	5

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

HI 2203-1305
Report No. first document

Stuttgart, December 15, 2023
Place, date of first document issued

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Report No. current document

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Place, current date

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

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

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.