



valid until: May 28, 2030

Fraunhofer

TESTED[®] DEVICE

HIWIN GmbH
Linear module HM080B
Report No. HI 2504-1621

Single product Particle Emission in Cleanroom (atmospheric)

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 2504-1621.

The linear module HM080B with profile rail QHH20 (color: aluminium silver) was assessed in compliance with ISO 14644-14. It is suitable for use under the specified test parameters (room temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
$v_1 = 0.5 \text{ m/s}$; $a_1 = 1.0 \text{ m/s}^2$; without suction	5
$v_2 = 1.0 \text{ m/s}$; $a_2 = 2.0 \text{ m/s}^2$; without suction	6
$v_3 = 1.5 \text{ m/s}$; $a_3 = 3.0 \text{ m/s}^2$; without suction	6
$v_1 = 0.5 \text{ m/s}$; $a_1 = 1.0 \text{ m/s}^2$; with suction	2
$v_2 = 1.0 \text{ m/s}$; $a_2 = 2.0 \text{ m/s}^2$; with suction	4
$v_3 = 1.5 \text{ m/s}$; $a_3 = 3.0 \text{ m/s}^2$; with suction	5
Overall result	6

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

HI 2504-1621 Stuttgart, May 28, 2025
Report No. first document Place, date of first document issued

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Report No. current document Place, current date

on behalf of 
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification

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.