



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

hawo GmbH  
hm 4000 DC-VI

**Report No. HA 2104-1228**

### Single product Particle Emission

DUPLICATE

### Qualification Certificate

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

**hawo GmbH**  
Obrigheim, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number HA 2104-1228.

The sealing machine hm 4000 DC-VI (color: V<sup>2</sup>A stainless steel) 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 Class according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Sealing temperature = 180 °C Throughput speed = 10m/min Contact pressure = ~100N	5
<b>Overall result</b>	

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

HA 2104-1228  
Report No. first document

Stuttgart, May 27, 2021  
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](http://www.tested-device.com).

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