



valid until: August 5, 2031

Fraunhofer

TESTED[®] DEVICE

hawo GmbH
hm 4000 DC-VI

Report No. HA 2605-1775

Single product Particle Emission in Cleanroom (atmospheric)

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 2605-1775.

The sealing machine hm 4000 DC-VI (V²A stainless steel) was
assessed in compliance with ISO 14644-14. When operated under
the specified test conditions (room temperature: 22 °C ± 0.5 °C;
relative humidity: 45 % ± 5 %), 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 = ~ 10 m/min Contact pressure = ~ 100 N	7
Overall result	

Please note: Transport damages, incorrect installation, oil leakage,
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

HA 2605-1775
Report No. current document

Stuttgart, August 5, 2026
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 current
date the 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.

The norms stated generally
refer to the version valid at
the time of the tests.



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IPA