

## Fraunhofer TESTED DEVICE

hawo GmbH HM 5000 PRINTPAK MED **Report No. HA 2401-1488** 

## Single product **Particle Emission**

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.



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 2401-1488.

The system HM 5000 DC-VI PRINTPAK MED SEALING EQUIPMENT + INKJET (V2A 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 Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
HM 5000 C INKJET Flow rate = 10 m/min	9
HM 5000 DC-VI PRINTPAK MED Sealing temperature = $180^{\circ}$ C Flow rate = $10$ m/min Contact pressure ~100N	7
Overall result	9

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

HA 2401-1488 Report No. first document

Stuttgart, March 1, 2024 Place, date of first document issued

Report No. current document

Place, current date on behalf of 7

