



valid until: March 27, 2029

Fraunhofer

TESTED[®] DEVICE

ABB

IRB 930-22/1.05

Report No. **AB 2402-1501**

Single product Particle Emission

DUPLICATE

Qualification Certificate

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

ABB Engineering (Shanghai) Ltd.
Shanghai, China

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number AB 2402-1501.

The robot IRB 930-22/1.05 (color: white) 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 |
|---------------------------|-----------------------|
| 50 % of maximum velocity | 4 |
| 100 % of maximum velocity | 4 |
| Overall result | 4 |

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

AB 2402-1501
Report No. first document

Stuttgart, March 27, 2024
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.