

Fraunhofer TESTED® DEVICE Franke GmbH

LTD-0320-Z **Report No. FR 2410-1564**

Single product **Particle Emission** in Cleanroom (atmospheric)

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.



Qualification Certificate

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

Franke GmbH Aalen, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number FR 2410-1564.

The slewing ring with direct drive LTD-0320-Z was assessed in compliance with ISO 14644-14. When operated under the specified test conditions (room temperature: $22 \degree C \pm 0.5 \degree C$; relative humidity: $45\% \pm 5\%$), 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
Installation position: 45° angle Travel distance: -180° to +180° Cycles per minute: n = 2 Payload: 50kg	4
Overall result	

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

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Stuttgart, June 3, 2025 Place, date of first document issued

Report No. current document

Place, current date

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

