



Fraunhofer

TESTED[®] DEVICE

igus GmbH

PRT-04-100-CR

Report No. IG 2308-1442

Single product
Particle Emission
Dry-Cleanroom

Qualification Certificate

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

igus GmbH
Cologne, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE
bearing the report number IG 2308-1442.

The PRT-04-100 Clean Room bearing (material: anodized aluminium) was assessed in compliance with ISO 14644-14. When operated under the specified test conditions, it is suitable for use in cleanrooms (with a dew point of $-40^{\circ}\text{C} \pm 2^{\circ}\text{C}$ and room temperature of $21^{\circ}\text{C} \pm 1.5^{\circ}\text{C}$) fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Installation position: horizontal Payload: $m = 10\text{ kg}$ Velocity: $v_1 = 70\text{ RPM} = 0.5\text{ m/s}$	6
Installation position: horizontal Payload: $m = 10\text{ kg}$ Swing angle: 180° Average Velocity: $v_2 = 0.1\text{ m/s}$	7
Overall result	7

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

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Report No. first document

Stuttgart, September 15, 2023
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 B rger, 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.