



Fraunhofer

TESTED[®] DEVICE

RK Rose+Krieger GmbH
 RK DuoLine Z60 Clean
Report No. RK 2011-1187

Single product
 Particle Emission

Qualification Certificate

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

RK Rose+Krieger GmbH
 Minden, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number RK 2011-1187.

The linear axis RK DuoLine Z60 Clean 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 |
|--|-----------------------|
| $v_1 = 0.25 \text{ m/s}$; $a_1 = 4.0 \text{ m/s}^2$; without suction | 5 |
| $v_2 = 0.5 \text{ m/s}$; $a_2 = 4.0 \text{ m/s}^2$; without suction | 6 |
| $v_3 = 1.0 \text{ m/s}$; $a_3 = 4.0 \text{ m/s}^2$; without suction | 7 |
| Overall result without suction | 7 |
| $v_4 = 0.25 \text{ m/s}$; $a_4 = 4.0 \text{ m/s}^2$; with suction | 1 |
| $v_5 = 0.5 \text{ m/s}$; $a_5 = 4.0 \text{ m/s}^2$; with suction | 1 |
| $v_6 = 1.0 \text{ m/s}$; $a_6 = 4.0 \text{ m/s}^2$; with suction | 1 |
| Overall result with suction | 1 |

RK 1404-704 Stuttgart, March 4, 2015
 Report No. first document Place, date of first document issued

RK 2011-1187 Stuttgart, February 26, 2021
 Report No. current document Place, current date

on behalf of 
 Dr.-Ing. Frank Bürger, Project Manager Fraunhofer IPA

DUPLICATE

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.