



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

RK Rose+Krieger GmbH  
RK DuoLine S80 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 S80 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
$v_1 = 0.1 \text{ m/s}$ ; $a_1 = 4.0 \text{ m/s}^2$ ; without suction	6
$v_2 = 0.25 \text{ m/s}$ ; $a_2 = 4.0 \text{ m/s}^2$ ; without suction	7
$v_3 = 0.5 \text{ m/s}$ ; $a_3 = 4.0 \text{ m/s}^2$ ; without suction	8
<b>Overall result without suction</b>	<b>8</b>
$v_4 = 0.1 \text{ m/s}$ ; $a_4 = 4.0 \text{ m/s}^2$ ; with suction	1
$v_5 = 0.25 \text{ m/s}$ ; $a_5 = 4.0 \text{ m/s}^2$ ; with suction	1
$v_6 = 0.5 \text{ m/s}$ ; $a_6 = 4.0 \text{ m/s}^2$ ; with suction	1
<b>Overall result with suction</b>	<b>1</b>

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](http://www.tested-device.com)**.

Detailed information and  
parameters of the test  
environment can be found  
in the Fraunhofer IPA test  
report.

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on behalf of   
Dr.-Ing. Frank Burger, Project Manager Fraunhofer IPA