



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

ZORN Maschinenbau GmbH  
ZLAG1-100-Z

Report No. ZO 1608-844

### Particle Emission

### Qualification Certificate

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

**ZORN Maschinenbau GmbH**  
Stockach, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number ZO 1608-844.

When operated under the specified test conditions, the Zorn linear axis ZLAG1-100-Z (material: aluminum natural anodized) 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
$v_1 = 0.5\text{m/s}; a_1 = 1.0\text{m/s}^2$	5
$v_2 = 1.0\text{m/s}; a_2 = 2.0\text{m/s}^2$	6
$v_3 = 2.0\text{m/s}; a_3 = 4.0\text{m/s}^2$	6
<b>Overall result</b>	<b>6</b>

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

Stuttgart, September 14, 2016

on behalf of   
Frank Bürger, Project manager Fraunhofer IPA

DUPLICATE

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.

Further information:

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