

Fraunhofer

TESTED[®] DEVICE

Asyril SA Asycube 530 **Report No. AS 2311-1470**

Statement of Qualification

Single product **Particle Emission**





Statement of Qualification • Single product

Asyril SA Customer

Z.I. du Vivier 22 1690 Villaz-St-Pierre Switzerland

Component tested

Category: Automation components

Transfer Systems and Bearing Subcategory

Product name: Asycube 530

(manufacturing date: 6/27/2023; weight: 31 kg; serial number:

A23240084)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

ISO 14644-1, -14

The norms stated generally refer to the version valid at the time of the tests.

Optical particle counter:

LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \,\mu\text{m}$, $\geq 0.2 \,\mu\text{m}$, \geq 0.3 µm, \geq 0.5 µm, \geq 1.0 µm and \geq 5.0 µm

•	Cleanroom Air	Cleanliness	Class	(according to ISO	14644-1):	. ISO 1
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Airflow velocity:	0.45 m/s
Airflow pattern: vertical	laminar flow

• Frequency:

Parameter Set 1:

•	1.	Long-axis	centering:	Amplitude =	: 60 %; Duration	= 250 m
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- 2. Cross-axis centering:......Amplitude = 75 %; Duration = 250 ms

Parameter Set 2:

- 2. Cross-axis centering:......Amplitude = 50 %; Duration = 250 ms



Test result/Classification

When operated under the specified test conditions, the feeding system Asycube 530 is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Amplitude = 75 %	6
Amplitude = 50 %	5
Overall result	6

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

The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

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

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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AS 2311-1470 Report No. first document Stuttgart, December 1, 2023 Place, date of first document issued

Report No. current document Place, current date

on behalf of AT Buil

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

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