





Fraunhofer TESTED® DEVICE Asyril SA Asycube Clean 230 Report No. AS 2503-1610

Statement of Qualification

Single product Particle Emission in Cleanroom (atmospheric)

Statement of Qualification • Single product

Customer	Asyril SA Z.I. du Vivier 22 1690 Villaz-St-Pierre Switzerland	Test result / Classification	The feeding system Asycube Clean 230 is suitable for use under the specified test parameters (room temperature: $22 \degree C \pm 0.5 \degree C$; relative humidity: $45\% \pm 5\%$) in cleanrooms of the following Air Cleanliness Class according to ISO 14644-1:
Tested product Category: Subcategory: Product name:	Automation components Transfer Systems and Bearing Asycube Clean 230 (manufacturing date: 11/7/2024; weight: 11kg; serial number: A24450139)		Test parameter(s)Air Cleanlines ClassAmplitude: Long-axis centering: 75 % Cross-axis centering: 75 % Flip: 75 %5Overall result5
Random sampling of particle emissions (airborne) at representative sites in cleanroom under atmospheric conditions			
Standards/guidelines:	ISO 14644-1, -14 The norms stated generally refer to the version valid at the time of the tests.		
Test equipment:	Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\geq 0.1 \mu\text{m}$, $\geq 0.2 \mu\text{m}$, $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1.0 \mu\text{m}$ and $\geq 5.0 \mu\text{m}$		
Test environment parameters:	 Cleanroom Air Cleanliness Class (according to ISO 14644-1):		

Test procedure parameters:

......Duration = 100 ms Amplitude = 75 %; Duration = 500 msDuration = 100 ms . Amplitude = 75 %; Duration = 500 msDuration = 1000 ms

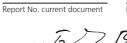
.... Amplitude = 75 %; Duration = 500 ms

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

AS 2503-1610 Report No. first document

Business unit Testing and Certification

Germany



on behalf of Dr.-Ing. Frank Bürger, head of bu:





IPA

• Room temperature: ..

• Long-axis centering:

Cross-axis centering:

Relative humidity:...

• Waiting:...

• Waiting:....

• Waiting:.

• Flip:..

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.

	This document only
	applies to the named
	product in its original state
Stuttgart, April 10, 2025	and is valid for a period of
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