

# Fraunhofer

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Gimatic S.R.L. KIT-GMPLM3240 **Report No. GI 2404-1518** 

Statement of Qualification

Single product **Particle Emission** 





## **Statement of Qualification** • Single product

**Customer** Gimatic S.R.L.

Via Enzo Ferrari 2/4 25030 Roncadelle (BS)

Italy

**Component tested** 

Category: Automation Components

Subcategory: Positioning Systems

Product name: GMP kit for long stroke parallel grippers (KIT-GMPLM3240)

(manufacturing date: 8/24/2023; color: black/clear; batch number: ODL-

AC12019)

### 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  $\mu$ m,  $\geq$  0.2  $\mu$ m,  $\geq$  0.3  $\mu$ m,  $\geq$  0.5  $\mu$ m,  $\geq$  1.0  $\mu$ m and  $\geq$  5.0  $\mu$ m

- Cleanroom Air Cleanliness Class (according to ISO 14644-1):.....ISO 1
- Airflow pattern:.....vertical laminar flow

- Control unit supplied by customer
- Installation position: vertical
   Cycle time: t<sub>z</sub> = 2s
- Test load: ......noi

### Test result/Classification

When operated under the specified test conditions, the GMP kit for long stroke parallel grippers (KIT-GMPLM3240) is suitable for use in cleanrooms fulfilling the specifications of the following Air Cleanliness Class according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Installation position: vertical Cycle time: $t_c = 2 s$ Number of cycles per minute: $n = 30$ Test load: none	6
Overall result	

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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Report No. first document

Stuttgart, June 6, 2019

Place, date of first document issued

GI 2404-1518
Report No. current document

Stuttgart, June 6, 2024

Place, current date

on behalf of David

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www.tested-device.com.

