

Fraunhofer

TESTED[®] DFVICF

Gimatic s.r.l.
Parallel gripper MPLM3240
Report No. Gl 2510-1678

Statement of Qualification

Single product
Particle Emission
in Cleanroom
(atmospheric)





Statement of Qualification • Single product

Gimatic s.r.l. Customer

> Via Enzo Ferrari 2/4 25030 Roncadelle (BS)

Italy

Tested product

Category: **Automation Components**

Positioning Systems Subcategory

Long stroke parallel gripper MPLM3240 Product name:

(manufacturing date: 7/21/2025; color: black; batch number: ODL-

AE12557)

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 μ m, \geq 0.5 μ m, \geq 1.0 μ m and \geq 5.0 μ m

Test environment parameters:

Airflow pattern:.....vertical laminar flow

Test procedure parameters:

 Control unit:.........supplied by customer

• Cycle time: t = 2.0s (1.0s for opening; 1.0s for closing)

Test result/Classification

The long stroke parallel gripper MPLM3240 is suitable for use under the specified test parameters (room temperature: 22 °C ± 0.5 °C; relative humidity: 45 % ± 5 %) in cleanrooms of the following Air Cleanliness Classes according to ISO 14644-1:

Test parameter(s)	Air Cleanlines Class
Installation position: vertical Cycle time: 2.0s (1.0s for opening; 1.0s for closing) Working gripper time per cycle: 1.06s Load: none	5
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

Business unit Testing and Certification

Nobelstrasse 12 70569 Stuttgart Germany

GI 2003-1164

Report No. first document

GI 2510-1678

Report No. current document

Stuttgart, October 24, 2025

Stuttgart, October 20, 2020

Place, date of first document issued

on behalf of R

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.

