

Fraunhofer

TESTED® DEVICE

Gimatic S.r.l. Gripper MPXM3220 **Report No. Gl 1501-746**

Statement of Qualification

Particle Emission





Statement of Qualification

Customer: Gimatic S.r.l.

Via Enzo Ferrari, 2/4 25030 Roncadelle - Brescia

Italy

Component tested

Category: Automation Components

Subcategory: Positioning Systems

Product name: Medium stroke gripper MPXM3220

(Lot-No.: ODL-R03790; manufacturing date: 16/12/2013)

Random sampling of particle emissions (airborne) at representative sites

Standards/Guidelines:

VDI 2083-9.1; ISO 14644-1

The norms stated refer to the relevant editions applicable at the time of

the tests.

Test devices: Optical particle counter:

LasAir II 110 & 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:

Airflow pattern:.....vertical laminar flow

Test procedure parameters:

 Test result/Classification:

(in acc. with ISO 14644-1)

Under the specified test conditions, the medium stroke gripper MPXM3220 is suitable for use in cleanrooms fulfilling the specifications of Air Cleanliness Class 7.



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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, March 27, 2015

Place, date of first document issued

Place, current dat

i. A. Frank Bürger, Project Manager Fraunhofer IPA

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com

Fraunhofer

PA