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TESTED[®] DEVICE

GIMATIC S.p.A.
Parallel gripper MPPM1606
Report No. GI 1112-583

DUPLICATE

Statement of
Qualification

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Customer: GIMATIC S.p.A.
Via Enzo Ferrari n. 2/4
25030 Roncadelle (BS)
Italy

Component tested:

Category: Automation Components
Subcategory: Positioning Systems
Type: Parallel gripper MPPM1606

Random check measurements of particle emission (airborne) at representative points

Test procedure: According to VDI 2083 Part 9.1

Measuring instruments being used: Optical Particle Counter:
Model LasAir II 110 manufactured by PMS with measuring channels of
 $\geq 0.1 \mu\text{m}$, $\geq 0.2 \mu\text{m}$, $\geq 0.3 \mu\text{m}$, $\geq 0.5 \mu\text{m}$, $\geq 1.0 \mu\text{m}$ and $\geq 5.0 \mu\text{m}$

Test parameters of the test environment:

- Cleanroom Air Cleanliness Class (according to ISO 14644-1):..... ISO 1
- Air flow velocity:.....0.45 m/s
- Air flow guidance:vertical unidirectional air flow
- Temperature:22 °C \pm 0.5 °C (71.6 °F \pm 0.9 °F)
- Relative humidity: 45 % \pm 5 %

Test parameters of the test execution:

- Control unit:..... supplied by the customer
- Cycle time:20 s

Test results / Classification:
(according to ISO 14644-1) The parallel gripper MPPM1606 is suitable for use in cleanrooms fulfilling the Air Cleanliness Class 4.

Assessment of conformity with GMP regulations and EHEDG conception and design recommendations

Test procedure: According to EU GMP Annex 1; EHEDG Documents; DIN EN 1672-2; ISO 14159

Test results / Classification:
(According to EU GMP Annex 1) The parallel gripper MPPM1606 does not fulfill clean and hygienic manufacturing requirements.

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The measuring equipment used for the qualification is regularly calibrated and is based on national and international standards. In the case where no national standards exist, the measuring procedure used corresponds with technical regulations and norms valid at the time of the measurement. The documents drawn up for this procedure are available for viewing.

The validity of this certificate applies only to the mentioned product in this particular condition for a duration of 5 years.
Further information: www.tested-device.com.


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Manufacturing Engineering and Automation IPA

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and Micromanufacturing

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Stuttgart, April 20, 2012

Place, Date


i. A.
Project manager