

## Fraunhofer

## TESTED® DEVICE

Gimatic S.p.A. MRE16180 **Report No. GI 1302-637** 

Statement of Qualification





## **Statement of Qualification**

**Customer:** Gimatic S.p.A.

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

Italy

**Component tested:** 

Category: Automation Components

Subcategory: Positioning Systems

Type: MRE16180

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

Test procedure:

Measuring instruments:

Test parameters of the test environment:

Test parameters of the test execution:

According to VDI 2083-9.1; ISO 14644-1

Each standard states refers to the version valid at the time of testing.

Optical Particle Counter:

Model LasAir II 110 manufactured by PMS with measuring channels of  $\geq 0.1 \, \mu m$ ,  $\geq 0.2 \, \mu m$ ,  $\geq 0.3 \, \mu m$ ,  $\geq 0.5 \, \mu m$ ,  $\geq 1.0 \, \mu m$  and  $\geq 5.0 \, \mu m$ 

<ul> <li>Cleanroom Air Cleanliness Class (accordin</li> </ul>	g to ISO 14644-1): ISO 1
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Air flow velocity:	(	J.	4	5	r	1
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Air flow guidance: .....vertical unidirectional air flow

• Temperature: ......22 °C ± 0.5 °C (71.6 °F ± 0.9 °F)

**Test results / Classification:** (according to ISO 14644-1)

MRE16180 is suitable for use in cleanrooms fulfilling Air Cleanliness Class 6.

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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**.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

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Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, March 21, 2013

Place, Date

i. A. Project manager

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