

Fraunhofer

TESTED® DEVICE

HMPtechnologie GmbH RTU Septa sorting equipment **Report No. HM 1204-596**

Statement of Qualification





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Customer: HMPtechnologie GmbH

Am Eichelgärtchen 36b 56283 Halsenbach

Germany

Component tested:

Category: Automation Components

Subcategory: Linear Units

Type: RTU Septa sorting equipment

• Linear module EDM 20-100 EL,

e.p.s elektropneumatische Systeme GmbH

- Rotary unit SE 20 E-2-50, e.p.s elektropneumatische Systeme GmbH
- Piezo linear feeder PLF, Fehlings Automation GmbH
- Drum feeder DF, Fehlings Automation GmbH
- Sensor DTA-1G-1,5-SA-V, Micro-Epsilon Messtechnik GmbH & Co. KG

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

Test procedure:

According to VDI 2083 Part 9.1

Optical Particle Counter:

Measuring instruments being used:

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 $\geq 5.0 \, \mu m$

Test parameters of the test environment:

Test parameters of the test execution:



Test results / Classification:The RTU Sept (according to ISO 14644-1)
the Air Clean

The RTU Septa sorting equipment is suitable for use in cleanrooms fulfilling the Air Cleanliness Class 6.

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

Department Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany Stuttgart, June 6, 2012

Place, Date

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