

## Fraunhofer

# TESTED® DEVICE

KUKA Roboter GmbH LBR iiwa 7 R800 CR **Report No. KU 1707-925** 

Statement of Qualification

Electrostatic Resistance





### **Statement of Qualification**

Customer KUKA Roboter GmbH

> Zugspitzstrasse 140 86165 Augsburg Germany

**Component tested** 

Category: **Automation Components** 

Subcategory: Robotics

LBR iiwa 7 R800 CR Product name:

(manufacturing date: 5/2017; serial number: 982698; payload: 7 kg; reach:

800 mm)

### Electrostatic discharge measurements at representative points (resistance to earth)

Standards/Guidelines:

Test devices:

Test environment parameters:

Test procedure parameters:

DIN EN 61340-2-3; DIN EN 61340-5-1

The norms stated generally refer to the version valid at the time of the tests.

Data capture: ......Tera-Ohm-Meter, type 6206, ......Eltex (Weil am Rhein)

- Cleanroom Air Cleanliness Class (according to ISO 14644-1):.....ISO 1
- Airflow pattern: vertical laminar flow

- Assembly state: .....insulating base – Type:.... 4x insulating feet – fully-insulated hexagonal feet with  $R > 10^{14} \Omega$
- Material: ......glass-filled polyester
- Contact point: ..... metallic flange for mounting tools
- Earthing point: ......at base of robot

Test result/Classification

The robot LBR iiwa 7 R800 CR was examined for its resistance to earth in accordance with DIN EN 61340-2-3. The test result lies below the required maximum value of 1 x  $10^9 \Omega$  according to DIN EN 61340-5-1 for ESD protective elements.

	Operating voltage [V]	Resistance $[\Omega]$	Compliance with limit value as per DIN EN 61340-5-1
Resistance to earth	10	< 2 x 10 <sup>5</sup>	fulfilled



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

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on behalf of AM Buil

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