



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

KUKA Deutschland GmbH  
KR 20 R1810 CR

**Report No. KU 2507-1650**

Single product  
Electrical  
Resistance

## Qualification Certificate

This is to certify that the product mentioned above, provided by

**KUKA Deutschland GmbH**  
Augsburg, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE  
bearing the report number KU 2507-1650.

The robot KR 20 R1810 CR was examined for its electrical resistance  
at representative points in accordance with IEC 61340-2-3.

The resistance to groundable point ( $R_{gp1}$ ) and ( $R_{gp2}$ ) values obtained  
from the test pieces lies within the limits of the limiting value of  
 $1 \times 10^9 \Omega$  required by IEC 61340-5-1 for ESD protective elements.

Measuring point	Operating voltage [V]	Resistance to groundable point $R_{gp1}$ and $R_{gp2}$ [ $\Omega$ ]	Compliance with limit value as per IEC 61340-5-1
Contact point 1	10	$< 1 \times 10^3$	fulfilled
Contact point 2	10	$< 1 \times 10^3$	fulfilled

This document only applies to the named product in its original state and is valid for a period of 5 years from the current date the document was issued. The document can be verified under

[www.tested-device.com](http://www.tested-device.com).

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

KU 1805-1035  
Report No. first document

Stuttgart, December 13, 2018  
Place, date of first document issued

KU 2507-1650  
Report No. current document

Stuttgart, November 10, 2025  
Place, current date

on behalf of   
Dr.-Ing. Frank Bürger, head of business unit Testing and Certification



**Fraunhofer**  
IPA