



# Fraunhofer

## TESTED<sup>®</sup> DEVICE

ABB Engineering (Shanghai) Ltd.

IRB 14050-0.5/0.5

**Report No. AB 2010-1184**

Single product  
Particle Emission

## Qualification Certificate

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

**ABB Engineering (Shanghai) Ltd.**  
Shanghai, China

has been awarded a Fraunhofer certificate TESTED DEVICE  
bearing the report number AB 2010-1184.

The robot IRB 14050-0.5/0.5 (color: gray) was assessed in  
compliance with ISO 14644-14. When operated under the  
specified test conditions, it is suitable for use in cleanrooms  
fulfilling the specifications of the following Air Cleanliness Classes  
according to ISO 14644-1:

Test parameter(s)	Air Cleanliness Class
Velocity = 50 %	6
Velocity = 100 %	6
<b>Overall result</b>	<b>6</b>

Please note: Transport damages, incorrect installation, oil leakage,  
aging behavior, corrosion etc. can influence the test result.

This document only  
applies to the named  
product in its original state  
and is valid for a period of  
5 years from the date the  
first document was issued.  
The document can be  
verified under  
**www.tested-device.com.**

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

AB 2010-1184  
Report No. first document

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Report No. current document

Stuttgart, January 26, 2021  
Place, date of first document issued

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Place, current date

on behalf of   
Dr.-Ing. Frank B rger, Project Manager Fraunhofer IPA