



Fraunhofer

TESTED[®] DEVICE

ASM AS GmbH & Co.KG
SIPLACE CA4 VS
Report No. AS 1903-1104

Single product
Particle Emission

Qualification Certificate

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

ASM AS GmbH & Co.KG
Munich, Germany

has been awarded a Fraunhofer certificate TESTED DEVICE bearing the report number AS 1903-1104.

The SIPLACE CA 4 V2 Placement Machine with optional SIPLACE Wafer System 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
Parameter Set 1: $P_{tb} = 78640 \text{ BE/h}$; 2x C&P20 M active; 2x CPP active	7
Parameter Set 2: $P_{tb} = 78640 \text{ BE/h}$; 2x CPP active; 2x C&P20 M active	7
Overall result	7

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

AS 1903-1104 Stuttgart, June 7, 2019
Report No. first document Place, date of first document issued

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Report No. current document Place, current date

on behalf of 
Dr.-Ing. Udo Gommel, Project Manager Fraunhofer IPA

DUPLICATE

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.