



Fraunhofer

TESTED[®] DEVICE

ATLAS COPCO TOOLS AB
ETD M25 AVB

Report No. MS 0806-436

DUPLICATE

Statement of
Qualification

Statement of Qualification

Manufacturer of object tested:	ATLAS COPCO TOOLS AB Tooltec Division 105 23 Stockholm Sweden
Component tested:	Screwdriver system
Type:	ETD M25 AVB
Tests performed:	Random sample measurements of particle emission (airborne) at representative points
Test parameters:	Revolutions: 100 1/min Cyclic operation: 5s move to 1s delay time
Test results / classification:	The screwdriver system ETD M25 AVB is suitable for use in cleanrooms fulfilling the specifications of Air Cleanliness Class ISO Class 2 (according to ISO 14644-1).

Standards / guidelines used for the qualification:	VDI 2083 Part 1, 4 and 9.1; ISO 14644-1
Test parameters of the cleanroom environment:	Cleanroom of Air Cleanliness Class ISO Class 1 (according to ISO 14644-1) Air flow velocity: 0.45 m/s Air flow guidance: vertical unidirectional air flow from ceiling to floor (raised floor) Temperature: 22 °C ± 0.5 °C (71.6 °F ± 0.9 °F) Relative humidity: 45 % ± 5 %

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.

DUPLICATE

DUPLICATE

Fraunhofer Institute
for Manufacturing Engineering
and Automation IPA

Department Ultraclean Technology
and Micromanufacturing

Nobelstrasse 12
70569 Stuttgart
Germany

Stuttgart, September 24, 2008

Ort, Datum
Place, date

i. A. 
Unterschrift Projektleiter
Signature of project manager

