





Fraunhofer TESTED® DEVICE Atlas Copco IT AB QMT41-100-106 Report No. AT 2104-1224

Statement of Qualification

Single product
Particle Emission

Statement of Qualification • Single product

| Customer | Atlas Copco Industrial Technique AB Sickla industriväg 19, Nacka 131 54 Stockholm Sweden | Test result / Classification | When operated under the specified test condition Screwdriver QMT41-100-I06 in combination with PS 180W-36V is suitable for use in cleanrooms fu the following Air Cleanliness Classes according to | MT FOCUS 6000 and a MT Ifilling the specifications of |
|--|---|---|--|---|
| Component tested | | | Test parameter(s) Screwdriver: | Air Cleanlines Class |
| Category: | Working Place and Operator | | Installation position: horizontal Velocity: 1000 rpm Movement: 15 s; Break: 5 s | 5 |
| Subcategory: | Work Equipment | | Controller | 1 |
| Product name: | Transducerized Screwdriver QMT41-100-I06 | | Power Supply | 1 |
| | (manufacturing date: week 38/2020; article number: 8432 0843 61; serial number: B2720148) | | Overall result | 5 |
| | in combination with: • Control and drive unit MT FOCUS 6000 | | | |
| | Control and drive unit INT FOCOS 8000 (TP09; manufacturing date: week 14/2017; article number: 8432 0851 00; serial number: B9480028) MT Power Supply (MT PS 180W-36V) (TP10; manufacturing date: week 30/2017; article number: 8432 0840 02; serial number: B9640581) | | Please note: Transport damages, incorrect installa behavior, etc. can influence the test result. | tion, oil leakage, aging |
| Random sampling of particle emissions (airborn | ne) at representative sites | | | |
| Standards/Guidelines: | ISO 14644-1, -14 | | | |
| | The norms stated generally refer to the version valid at the time of the tests. | | | |
| Test devices: | Optical particle counter: LasAir II 110 and LasAir III 110 with measuring ranges $\ge 0.1 \mu\text{m}$, $\ge 0.2 \mu\text{m}$, $\ge 0.3 \mu\text{m}$, $\ge 0.5 \mu\text{m}$, $\ge 1.0 \mu\text{m}$ and $\ge 5.0 \mu\text{m}$ | | | |
| Test environment parameters: | Cleanroom Air Cleanliness Class (according to ISO 14644-1): ISO 1 | | | |
| | Airflow velocity:0.45 m/s Airflow pattern:vertical laminar flow | | | |
| | • Temperature: | | ests are calibrated at regular intervals; their results can t | |
| | • Relative humidity: | | tional standards exist, the test procedure implemented on retest. The relevant documentation can be viewed on r | - |
| Test procedure parameters: | Installation position: | Detailed information and parameters of the test e | nvironment can be found in the Fraunhofer IPA test rep | ort |
| | Interval: | Detailed mornation and parameters of the test ef | | |
| | | | | |
| | Fraunhofer | Department of Ultraclean Technology and Micromanufacturing Report | 2104-1224 Stuttgart, April 30, 2021 t No. first document Place, date of first document issued Place, current date t No. current document Place, current date half of Definition Definit Measure Enveloped for IDA | 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. |
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