FAQ FOR FG ESD PRESET TORQUE SCREWDRIVERS

Q1: What fastening applications are preset screwdrivers used in?

A1: Preset torque screwdrivers are ideal for production application where consistent torque is critical. They are commonly used in assembly lines, electronics manufacturing, and other precision fastening tasks where operators must consistently apply the same torque setting for each part. Preset torque screwdrivers offer greater consistency and repeatability, reducing the risk of operator error.

Q2: Does the FG screwdriver have an external torque scale or adjustment mechanism?

A2: No, FG preset screwdrivers do not have an external torque adjustment scale. They feature an internal torque adjustment mechanism that requires a hex key and a torque analyzer to set the torque value. If customers are seeking a tool with an external torque adjustment scale, we recommend exploring our FGA adjustable screwdriver.

Q3. How do you set the torque for the preset screwdriver?

A3. The torque can be set using a torque analyzer, or customers can order the screwdriver pre-calibrated to their specified torque value. Link to manual here (link).

Q4. Can the preset torque value be changed for a new fastening application?

A4. Yes, the preset torque value can be adjusted internally. Customers can either use a torque analyzer to recalibrate the screwdriver or send it to a calibration lab for adjustment.

Q5. What is the ISO standard for re-calibrating hand screwdrivers?

A5. ISO 6789-1:2017standard recommends recalibration after a maximum of 5,000 cycles.

Q6. How often does the FG need to be recalibrated?

A6. The FG-8i, FG-20i, FG-40i, and FG-125i models feature a calibration life that is 4x the ISO standards, needing recalibration approximately every 20,000 cycles.

Q7. What kind of grease is used in the ESD screwdrivers?

A7. The Mountz ESD FG and FGA screwdrivers feature a polyurea Grease, which is utilized in all FG and FGA standard models.

Q8. Does the ESD protection comply with international standards?

A8. Yes, Mountz ESD screwdrivers comply with international standards for electrostatic discharge protection, including IEC 61340-5-1 and ANSI/ESD STM11.13, ensuring they are safe to use in environments where ESD-sensitive components are present.

Q9. What kind of materials are used in the ESD screwdrivers to ensure safety?

A9. FG ESD screwdrivers are constructed using materials that safely dissipate electrostatic charges. This includes a dissipative powder coat finish that maintains a surface resistance within the range of 10^5 to 10^8 Ohms, ensuring compliance with ESD standards (IEC 61340-5-1, ANSI/ESD STM11.13).

Q10. Do you have any specifications on the ESD protection level?

A10. Yes, FG ESD screwdrivers meet stringent ESD protection standards, They maintain a surface resistivity ranging typically from 10^5 to 10^8 Ohms when measuring the handle-to-tip resistance and 10^5 to 10^8 Ohms for material resistance per ANSI/ESD STM11.13. The electrostatic decay from the handle through the bit is typically less than 50 milliseconds, ensuring electrical conductivity from 1 kV to 1 V.

Q11. How do FG ESD screwdrivers prevent grease leakage and contamination?

A11. FG ESD screwdrivers are equipped with dynamic wear-resistant internal seals that provide added protection by preventing grease leakage and contamination from infiltrating sensitive areas or components.

Q12. Are there any maintenance tips for extending the life of the FG screwdriver?

A12. Regular maintenance can extend the life of your FG screwdriver. Avoid exposure to harsh environments and recalibrate as recommended.

Q13. Can FG screwdrivers be used in environments other than ESD-protected areas?

A13. Yes, while FG screwdrivers are designed for ESD-protected environments, they can also be used in other settings where precision and consistent torque are required.

Q14. What is the recommended cleaning procedure for FG ESD screwdrivers?

A14. FG ESD screwdrivers are designed to withstand frequent wiping and are ideal for advanced cleansing regimens with water and alcohol-based solvents. However, please note that these tools are not designed to be submerged. Acetone and other strong solvents must be avoided as they can cause damage to the finish.

Q15. How do I know if my FG screwdriver needs recalibration?

A15. Signs that recalibration is needed include inconsistent torque application, the tool failing to click at the set torque, or after completing the recommended cycle limit. Regular checks with a torque analyzer can help determine if recalibration is necessary.

Q16. Can FG screwdrivers be customized for specific applications?

A16. Yes, FG screwdrivers can be customized to meet specific application requirements, including preset torque values, handle engraving, special bits and end configurations, and more. Contact our customer service for customization options.

Q17. What makes something ESD safe?

A17. ANSI/ESD STM 11.13 specifies that materials with a surface resistance of $1x10^4$ to $1x10^{11}$ ohms are considered static dissipative. Setting up an ESD control program in accordance with ANSI/ESD S20.20 is the best means to combat potential ESD issues.

Q18. What if a I use the standard FG screwdrivers for an ESD application? What are the risks?

A18. Mountz standard FG screwdrivers are not designed for use in an ESD-protected environment. Our standard preset screwdriver have insulating properties and can hold a charge, potentially causing damage to sensitive products. We recommend that each customer qualify their tools for their specific application.

Q19. Can the FG ESD screwdriver be used alone without the need for additional ESD support equipment?

A19. These tools are designed to be used as part of a comprehensive ESD protected area. A complete ground path is necessary for optimum performance.

Q20. What happens if there is damage to the exterior of the FG ESD tool? Does it remain compliant?

A20. It depends on the size of the scratch. Small scratches and imperfections in the coating are not a problem and do not affect compliance.

Q21. Do the ESD properties wear off with FG ESD tools?

A21. Our FG ESD screwdrivers use a homogenous blend coating, so if the coating wears down, the performance remains consistent.

Q22. Can FG ESD tools be cleaned, and if so, how?

A22. Yes, FG ESD tools can be cleaned. Use water or IPA, and avoid using harsh abrasives that could damage the surface.

Q23. What types of industries benefit most from using ESD tools?

A23. Industries such as electronics manufacturing, semiconductor production, and any field involving sensitive electronic components benefit from using ESD tools to prevent damage from electrostatic discharge.

FAQ FOR FG MINI ESD PRESET TORQUE SCREWDRIVERS

Q1: What fastening applications are preset screwdrivers used in?

A1: Preset torque screwdrivers are ideal for production application where consistent torque is critical. They are commonly used in assembly lines, electronics manufacturing, and other precision fastening tasks where operators must consistently apply the same torque setting for each part. Preset torque screwdrivers offer greater consistency and repeatability, reducing the risk of operator error.

Q2: Does the FG Mini screwdriver have an external torque scale or adjustment mechanism?

A2: No, FG preset screwdrivers do not have an external torque adjustment scale. They feature an internal torque adjustment mechanism that requires a hex key and a torque analyzer to set the torque value. If customers are seeking a tool with an external torque adjustment scale, we recommend exploring our FGA adjustable screwdriver.

Q3. How do you set the torque for the preset screwdriver?

A3. The torque can be set using a torque analyzer, or customers can order the screwdriver pre-calibrated to their specified torque value. Link to manual here (link).

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A4. Yes, the preset torque value can be adjusted internally. Customers can either use a torque analyzer to recalibrate the screwdriver or send it to a calibration lab for adjustment.

Q5. What is the ISO standard for re-calibrating hand screwdrivers?

A5. ISO 6789-1:2017standard recommends recalibration after a maximum of 5,000 cycles.

Q6. How often does the FG Mini need to be recalibrated?

A6. The FG-25z and FG-50z models meet the ISO standards and require recalibration after 5,000 cycles.

Q7. What kind of grease is used in the ESD screwdrivers?

A7. The Mountz ESD FG and FGA screwdrivers feature a polyurea Grease, which is utilized in all FG and FGA standard models.

Q8. Does the ESD protection comply with international standards?

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