WDS Components Help Desk

Safe Dissipation of Static Electricity in Sensitive Environments

2026-05-21 - Mark Moody - Sales and Marketing Director - New Products

A New Range of Electrostatic Discharge Components Ensures Safe Dissipation of Static Electricity in Sensitive Environments

WDS Components Ltd is pleased to announce the launch of a new line of Electrostatic Discharge (ESD) components designed to improve safety and reliability in electrostatically sensitive environments such as electronics assembly, laboratories, and cleanrooms. This comprehensive range includes levelling feet, clamping levers, grips, handles, and knobs, all designed to prevent static charge accumulation while maintaining outstanding mechanical performance. All of WDS' ESD components conform to DIN EN 61340-5-1, the international standard for "protection of electronic devices from electrostatic phenomena."

Stability, Hygiene and ESD Control

Electrostatic discharge is the sudden transfer of electrical charge between two objects with different voltages. In industrial settings uncontrolled ESD can damage equipment or disrupt sensitive instruments.

This range of components, which includes levelling feet, clamping levers, grips, handles and knobs, addresses the challenge of electrostatic discharge by incorporating ESD-conductive materials into these components which allows static electricity to safely dissipate to ground, preventing charge accumulation while maintaining excellent mechanical stability. This new range provides stable, hygienic, and corrosion-resistant support in environments where static control and cleanliness are vital.

Controlled Electrostatic Discharge, High Performance

Each component in the new ESD range is optimised for performance in its specific mechanical function:

Levelling Feet

- These levelling feet incorporate an ESD-conductive base that allows static electricity to safely dissipate to ground, preventing charge accumulation while maintaining excellent mechanical stability and high friction even on smooth or coated floors. They are suitable for electronic assembly and ESD-safe workstations, laboratory and pharmaceutical equipment and more. A swivel foot design self-aligns on uneven surfaces.

Clamping Levers

– Designed for clamping equipment or machinery parts, this lever is manufactured from an ESD-safe, conductive polymer, allowing static electricity to safely dissipate through the lever body to ground. It provides quick, tool-free adjustment; their ergonomic handles and conductive constructions provide reliable operation where static protection and operator comfort are essential.

Mushroom knobs, star grips, knurled nuts

– These various components manufactured in stainless steel with ESD material grips offer secure, comfortable manual tightening in electrostatic-sensitive environments. They ensure excellent grip even when wearing gloves.

Handles

– Their smooth bow-shaped design offers a comfortable grip and balanced handling, making these handles ideal for drawers, panels, and enclosures in electronics assembly, cleanrooms, and laboratory applications. Manufactured from conductive materials, they safely dissipate static electricity to prevent ESD damage to sensitive components and equipment.

Wing Knobs and Mini Wing Knobs

- Designed for quick, tool-free adjustment. The wing-style design provides an easy, comfortable grip for fast tightening and release, even in confined spaces. These knobs are ideal for use in electronics manufacturing, cleanrooms, and precision assembly equipment.

Material Benefits

This new range includes thermoplastic parts combined with stainless steel and conductive ESD elastomer to create a fully static-dissipative unit. 304 stainless steel provides excellent corrosion resistance for general industrial and laboratory use. 316 stainless steel offers enhanced resistance to chlorides and is recommended for high-humidity or marine environments.

For more information, including detailed specifications, technical drawings, and ordering options, visit www.wdscomponents.com or contact the WDS technical support team.