



HUMAN
WORKSPACE

TRESTON

As a NATO-identified and experienced manufacturer, Treston provides a complete UAV assembly environment engineered for quality, efficiency, rapid relocation, and seamless scalability.

A trusted workstation partner

**For mission critical UAV
production environments**

Treston scalable ESD workstation solutions for UAV manufacturing

Treston FPV drone assembly workstations combine ESD-safe workstations, smooth material flow, ergonomic access to tools and components, and modular workstation organisation. Each solution is designed to help manufacturers improve assembly efficiency, protect sensitive electronics and adapt production layouts as requirements change.

1. Scalable and reconfigurable production

Scalable workstation concept

A standardised workstation layout makes it easier to replicate assembly cells, add capacity and maintain consistent working methods across production sites.

Flexible deployment

Modular workstation layouts support distributed production and make it easier to relocate or reconfigure assembly cells when production requirements change.

Adaptable to different production environments

Workstations can be arranged for different facility layouts, including in-line rows, U-shaped cells, L-shaped cells or standalone assembly stations. Adjustable levelling feet help ensure stable installation on uneven industrial floors.

2. Modular workstation platform

Configurable for different assembly stages

The same workstation platform can be adapted for soldering, electronics assembly, mechanical assembly, testing, inspection and firmware flashing using modular accessories.

5S-ready organisation

Dedicated locations for tools, components, small parts and soldering equipment support visual management, reduce searching time and help keep the workstation clean and organised. The mobile component trolley extends this organisation to material flow by keeping drone-specific components visible, separated and easy to replenish in ESD-safe bins.

Ergonomic access to tools and components

Swivel arm accessories, component trolleys and ESD bins keep frequently used items visible and within the operator's primary reach zone, supporting efficient and comfortable assembly work.



Built-in ESD protection



Standard FPV drone assembly workstation

TP712-ESD-FPV



1. TP workbench ESD



1200 x 700 mm



650-900 mm



300 kg



ESD-safe

2. Component trolley with two adjustable shelves



1630 x 943 x 760 mm (871 x 650 x 37 mm / shelf)



300 kg (100 kg / shelf)



ESD-safe

Efficient ESD workstation for FPV drone assembly

The TP ESD workstation provides a practical and cost-effective solution for FPV drone assembly. Its proven industrial design offers a reliable and versatile platform for daily production tasks, while integrated levelling feet ensure stable workstation installation even on uneven industrial floors.

A mobile component trolley supports efficient material flow and kitting, ensuring that components remain organised, visible and readily available throughout the assembly process. Components such as **flight controllers, ESCs, radio receivers, FPV cameras, video transmitters, GPS modules, antennas, connectors and wiring harnesses** can be organised in ESD-safe bins on the trolley's inclined shelves.

The trolley is typically positioned behind the workstation to keep components within easy reach of the operator. Alternatively, it can be placed alongside the workstation when the workstation is positioned against a wall or when production layouts require side access to materials.

The workstation includes an efficient and dimmable LED light for precision assembly, inspection and quality control tasks and a power rail for convenient access to power. Swivel arm accessories keep tools, small components and soldering equipment within the operator's primary reach zone while maintaining a clean and organised work area. A rotating tool panel provides convenient access to frequently used assembly tools, a dedicated tray accommodates soldering equipment and related accessories, and a curved bin rail fitted with ESD bins keeps screws, connectors and other small components clearly visible and readily available.

For transportation or workstation relocation, the swivel arm accessories can be folded towards the centre of the workstation to minimise the footprint and help protect equipment from damage. Optional ESD castors (code: 860429-00) enable quick workstation relocation and provide additional flexibility when production layouts change.

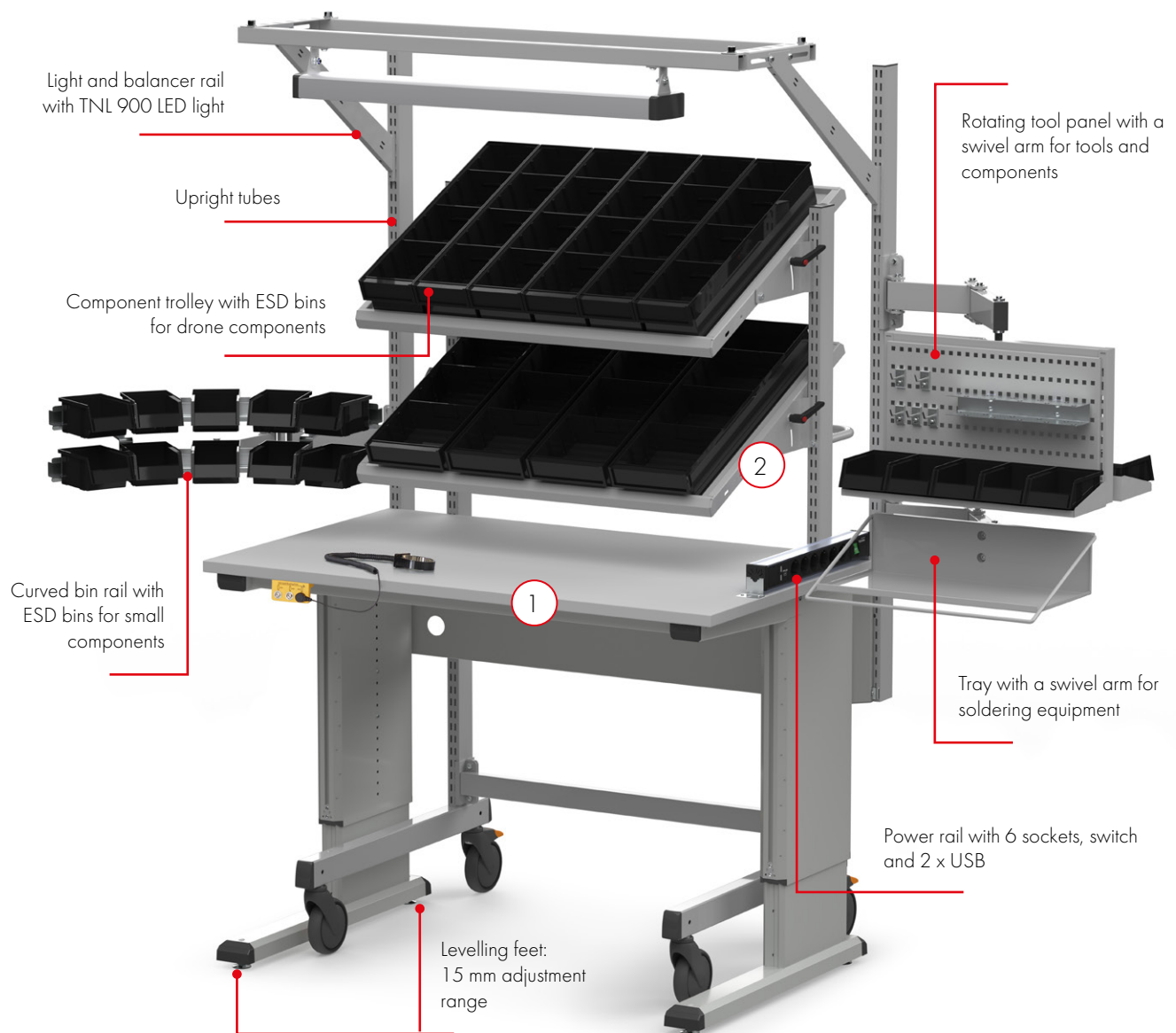
How it supports FPV drone assembly

- Mobile component trolley supports efficient material replenishment and kitting
- Components remain organised, visible and within easy reach throughout the assembly process
- Dedicated locations for tools, small parts and soldering equipment help maintain an efficient and uncluttered work area
- Integrated lighting and power distribution support precision assembly, inspection and testing tasks
- Ergonomic height adjustment supports operators during long assembly shifts
- Full ESD protection safeguards sensitive electronics throughout the assembly process

A practical and cost-effective ESD assembly workstation that combines efficient material flow, organised component storage and dedicated locations for tools and soldering equipment, supporting reliable UAV assembly.

Heavy-duty FPV drone assembly workstation

CE12075-ESD-FPV



1. Concept Ergo ESD workbench



1200 x 750 mm



700-1100 mm



500 kg



ESD-safe

2. Component trolley with two adjustable shelves



1630 x 943 x 760 mm (871 x 650 x 37 mm/ shelf)



300 kg (100 kg / shelf)



ESD-safe

High-capacity ESD workstation for continuous production

The Concept Ergo ESD workstation is designed for demanding FPV drone manufacturing environments where stability, flexibility and long-term durability are essential. A mobile component trolley supports efficient material flow and kitting, ensuring that components remain organised, visible and readily available throughout the assembly process. Components such as **flight controllers, ESCs, radio receivers, FPV cameras, video transmitters, GPS modules, antennas, connectors and wiring harnesses** can be organised in ESD-safe bins on the trolley's inclined shelves.

The trolley is typically positioned behind the workstation to keep components within easy reach of the operator. Alternatively, it can be placed alongside the workstation when the workstation is positioned against a wall or when production layouts require side access to materials.

The workstation includes an efficient and dimmable LED light for precision assembly, inspection and quality control tasks and a power rail for convenient access to power. Swivel arm accessories keep tools, small components and soldering equipment within the operator's primary reach zone while maintaining a clean and organised work area. For transportation or workstation relocation, the swivel arm accessories can be folded towards the centre of the workstation to minimise the footprint and help protect equipment from damage.

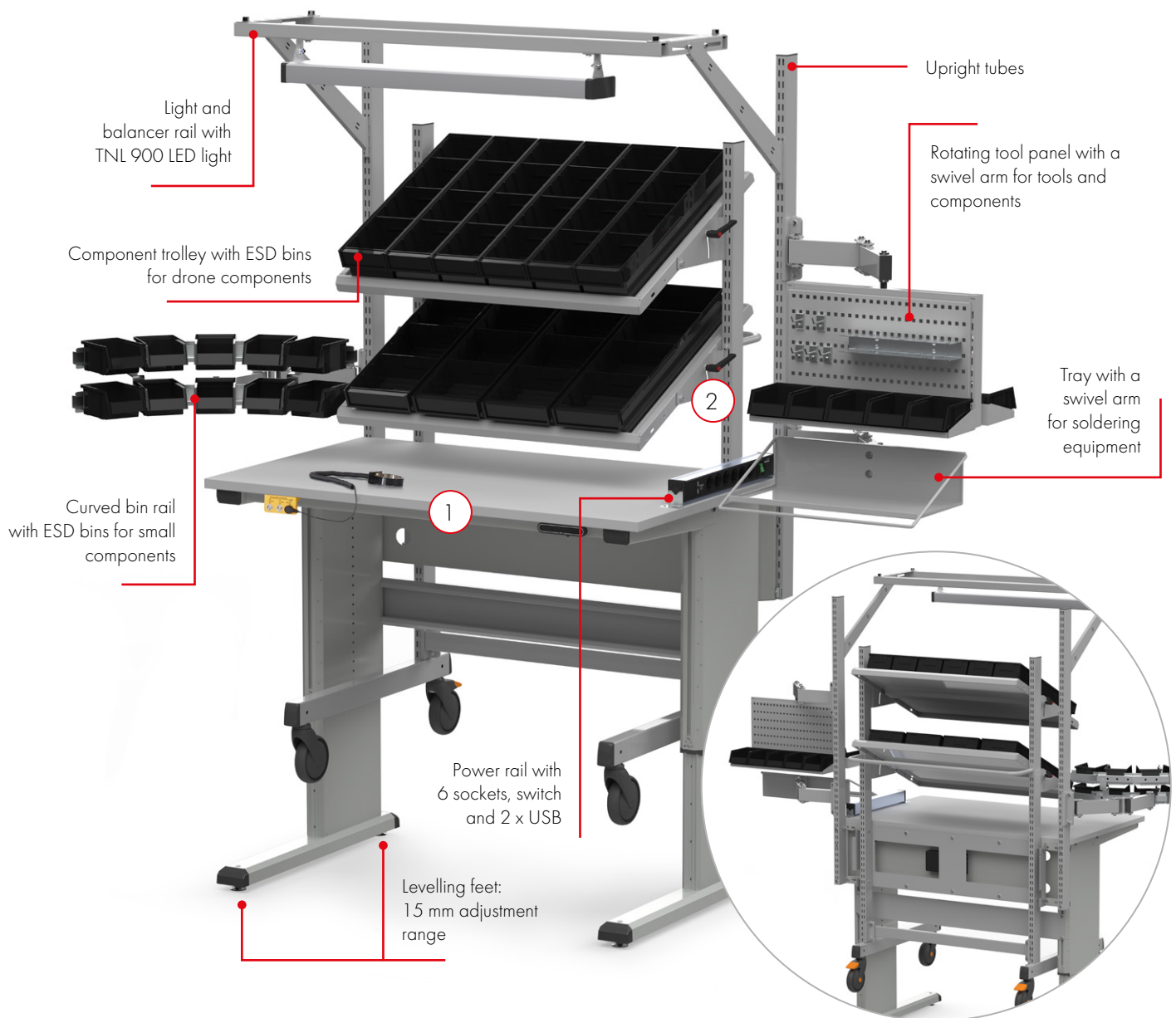
Levelling feet help ensure a stable and level workstation installation, even on uneven floors. Optional castors (code LCS100CE-ESD) or a transport base (2 × 854061-49) enable easy relocation and reconfiguration of production cells as manufacturing requirements evolve.

How it supports FPV drone assembly

- High load capacity accommodates test equipment, power supplies and drone assemblies
- Ergonomic height adjustment supports operators during long assembly shifts
- Mobile component trolley supports efficient material flow and kitting
- Components remain organised, visible and readily available throughout the assembly process
- Integrated lighting and power distribution support assembly, inspection and testing tasks
- Full ESD protection safeguards sensitive electronics throughout the assembly process

A robust ESD production workstation combining high load capacity, efficient material flow and ergonomic adjustability for demanding FPV drone manufacturing environments.

Electric-height adjustable FPV drone assembly workstation with docking system **CE12075EL-ESD-FPV**



1. Concept Ergo Electric ESD workbench



1200 x 750 mm



700-1100 mm



400 kg



ESD-safe

2. Component trolley with two adjustable shelves



1630 x 943 x 760 mm (871 x 650 x 37 mm/ shelf)



300 kg (100 kg / shelf)



ESD-safe

Advanced ESD assembly cell with synchronised material flow

The Concept Ergo EL docking system combines an electrically height-adjustable workstation with a mobile component trolley to create a highly efficient FPV drone assembly cell. The trolley serves as an independent logistics unit for material transport, kitting and replenishment.

A mobile component trolley positioned behind the workstation supports efficient material flow and kitting. Adjustable inclined shelves keep ESD-safe component bins visible and easily accessible. Components such as **flight controllers, ESCs, radio receivers, FPV cameras, video transmitters, GPS modules and wiring harnesses** remain organised and within easy reach throughout the assembly process.

When assembly begins, the trolley can be docked to the workstation. Once connected, the trolley moves together with the electrically height-adjustable workbench, ensuring that both the work surface and the components remain at the same ergonomic working height. This keeps materials within the operator's optimal reach zone throughout the assembly process and eliminates unnecessary bending and reaching.

The workstation includes an efficient and dimmable LED light for assembly, inspection and soldering tasks and a power rail for convenient access to power. Swivel arm accessories keep tools, small components and soldering equipment organised and readily available while maintaining a clean and efficient work area.

Levelling feet help ensure a stable and level workstation installation, even on uneven floors. Optional castors (code LCS100CE-ESD) or a transport base (2 × 854061-49) enable easy relocation and reconfiguration of production cells as manufacturing requirements evolve.

How it supports FPV drone assembly

- Docking system keeps both components and work surface at the same ergonomic working height
- Mobile component trolley supports efficient material transport, kitting and replenishment
- Components remain organised, visible and within the operator's optimal reach zone
- Electric height adjustment enables rapid adaptation to different operators and assembly tasks
- Integrated lighting and power distribution support assembly, inspection and testing tasks
- Full ESD protection safeguards sensitive electronics throughout the assembly process

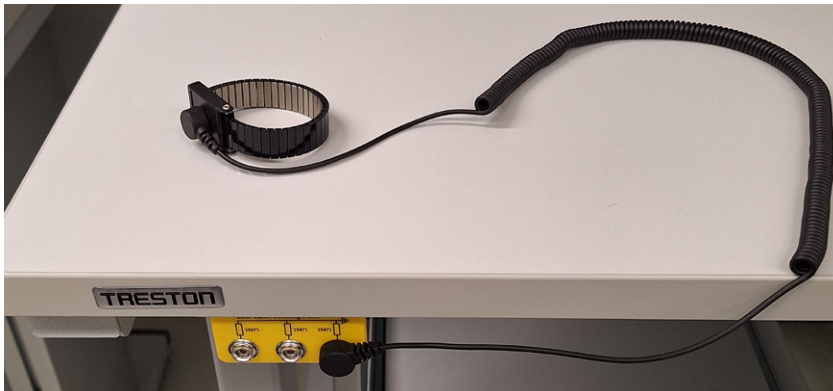
A unique assembly cell concept where ergonomics and material flow work together, keeping both the work surface and components at the optimal working height throughout the assembly process.



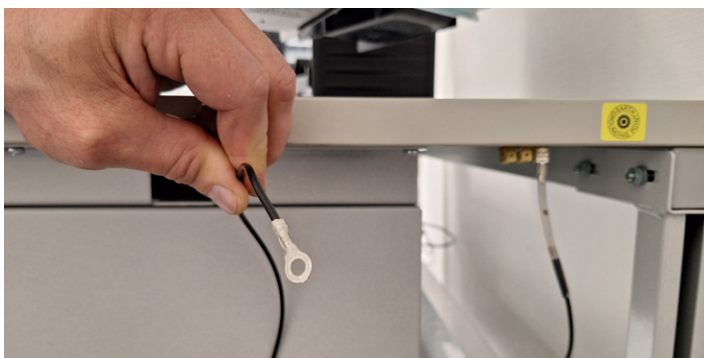
Grounding of ESD workbenches

1. Operator → wrist strap → earthing box
2. Workbench → grounding cable → CPG
3. CPG → Protective Earth (PE)

ESD consulting services are available upon request.

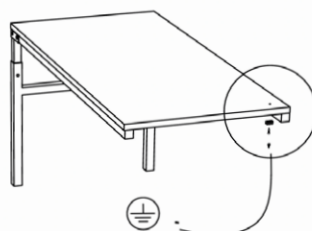
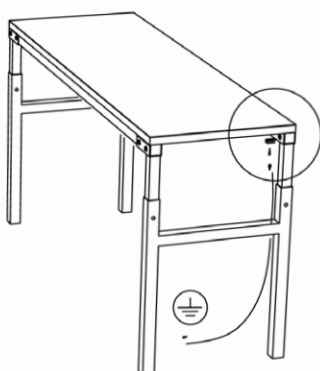


- 1 The operator must wear a wrist strap connected to the earthing box. Wrist straps and earthing boxes are included with the offered TP and Concept Ergo workstations.

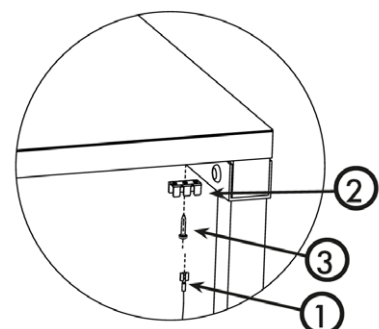


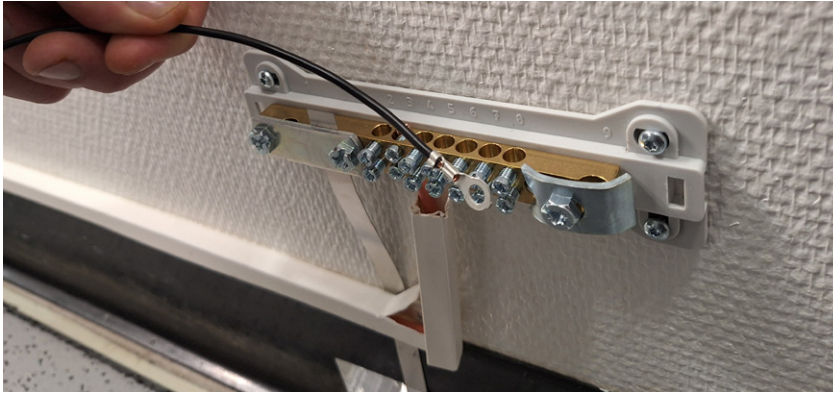
- 2 Connect the grounding cable to the TP workbench as instructed.

For Concept Ergo workbenches, a grounding cable is not required when an ESD floor is available. If an ESD floor is not available, attach the supplied grounding cable to the underside of the worktop according to the instructions below.



1		L= 1500
2		6,3 x 0,8 (6 x 90°)
3		4,5 x 20





- 3 The grounding cable is then connected to the Common Point Ground (CPG), which is not included in the offer. The CPG can be ordered separately (code 860530-00).



- 4 The Common Point Ground (CPG) is then connected to the Protective Earth (PE). The connection to the PE is not included in the offer.

Grounding of component trolleys

The component trolley is equipped with ESD castors. The shelves and frame are coated with semi-conductive ESD paint to provide a controlled path to ground.

TP712-ESD-FPV and CE12075-ESD-FPV: ESD castors require either an ESD floor or an ESD floor mat for proper grounding. When an ESD floor mat is used, it must be connected to the Common Point Ground (CPG) with a grounding cable. The ESD floor and ESD floor mat are not included in the offer.

CE12075EL-ESD-FPV: When used with the docking system, the component trolley is grounded through the docking station when docked to the workbench. In this case, neither an ESD floor nor an ESD floor mat is required for grounding of the trolley.

Certified to meet international standards for demanding environments

ESD certification IEC 61340-5-1

- **ESD workstations** (Concept Ergo electric and allen key adjustable workstations, WB electric adjustable workstations, QuatreX, TED, TP and TPH workstations)
- **ESD trolleys** (Multi Industrial trolleys, SAP trolleys)
- **ESD storage bins** and bin cabinets

Treston workstations and furniture have been the benchmark in high-quality ESD furniture for over 40 years. Our ESD Proof products are designed to be inherently ESD safe, and they are ESD certified and compliant with **IEC 61340-5-1**, **IEC61340-6-1**, and **ANSI S20.20** standards.

ESD Proof by Design™

With Treston solutions you can rest assured you create workspaces where safety, comfort, and performance go hand in hand. Treston workstations and furniture have been the benchmark in high-quality ESD furniture for over 40 years. ESD protection is built into the very foundation of our ESD workstation solutions.

Treston warranty period

The guarantee period for Treston™ products is 10 years from the date of delivery with some exceptions. For plastic bins guarantee is 5 years. The warranty period for worksurfaces, electric components, saddle chairs, lights, and normal wear and tear items such as castors, slides and roll profiles is 2 years. For trading products and components as well as custom-made articles we guarantee 2-year warranty unless otherwise agreed.

NCAGE code

Treston has an NCAGE code (NATO Commercial and Government Entity, A030G), which enables Treston to be identified in NATO procurement and logistics systems.



TRESTON

CONTACT OUR SPECIALISTS to discuss your production environment and requirements.

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