



 **& Tsa Bt.**  
YOUR PARTNER IN INDUSTRIAL ELECTRONICS

# WE COOPERATE

- **ESD PROTECTION**
- **ESD TRAINING, AUDIT, MEASUREMENT**
- **FLOOR CONSTRUCTION - ESD AND NON-ESD**
- **CLEANROOM PRODUCTS AND SERVICES**
- **ESD AND CLEANROOM CLEANING SERVICES**
- **SOLDERING TECHNOLOGY**
- **ELECTRONIC HAND TOOLS**
- **OCCUPATIONAL SAFETY AND ERGONOMICS**



## INTRODUCTION

The D és Tsa Bt. is a 100% Hungarian-owned company founded in 1996, certified according to the EN ISO 9001:2015 quality management system, and is also engaged in production and trade. Our company is based in Vác, Hungary. Over the years we developed a wide network of contacts in the industrial sector in Hungary, and we also have partners in many countries abroad. Our perception is also reflected in the following slogan:

***„D és Tsa Bt. doesn't simply offer products, but cooperation.”***

Our main field of activity is helping our partners in establishing and maintaining well-functioning **ESD protection**. We don't just sell products or services for this, but we can support companies in a complex way with our expertise. We have more than 25 years of experience in this field. We also conduct **training, auditing and measurement activities** in addition to the sale of ESD products.

You can contact us regarding **floor construction** as well, whether it is about ESD protected or not, smaller or bigger areas. We can help the establishment and maintenance of **cleanroom** work at your company with products and services, for example with coveralls, covering materials or complex construction. We can provide professional **cleaning service** in an ESD protected area and in a cleanroom. You can purchase **soldering technology products** as well from us, soldering stations, solder tips, auxiliary materials. During our **soldering technology training** the participants can gain theoretical and practical knowledge about soldering technology processes related to the production of electronic products. **Electronic hand tools** are also available through us, for example tweezers, pliers, scalpels, blades. We can support safe work and **occupational safety** in industrial areas with occupational safety training, safety barriers, floor painting, floor marking stickers. In terms of creating and maintaining **ergonomics** at the workplace, anti-fatigue mats, work and office chairs and shoes that can be purchased from us can be helpful.

You can meet with colleagues and see products from us on **PRODUCTRONICA** (Munich, Germany) International Trade Fair.



**WE COOPERATE. WITH OUR PARTNERS.  
WITH OUR EMPLOYEES. WITH YOU.**



We have got 3 clothing production facility sites in Hungary, these are at **Heresznye** and **Vásárosnamény**. We manufacture AIJGO ESD testers in **Tatabánya**.



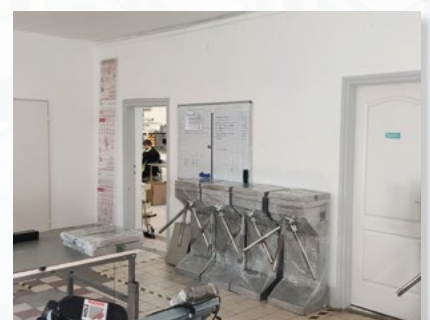
### HERESZNYE



### VÁSÁROSNAMÉNY



### TATABÁNYA



**D & Tsa Bt.**  
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# ESD PROTECTION

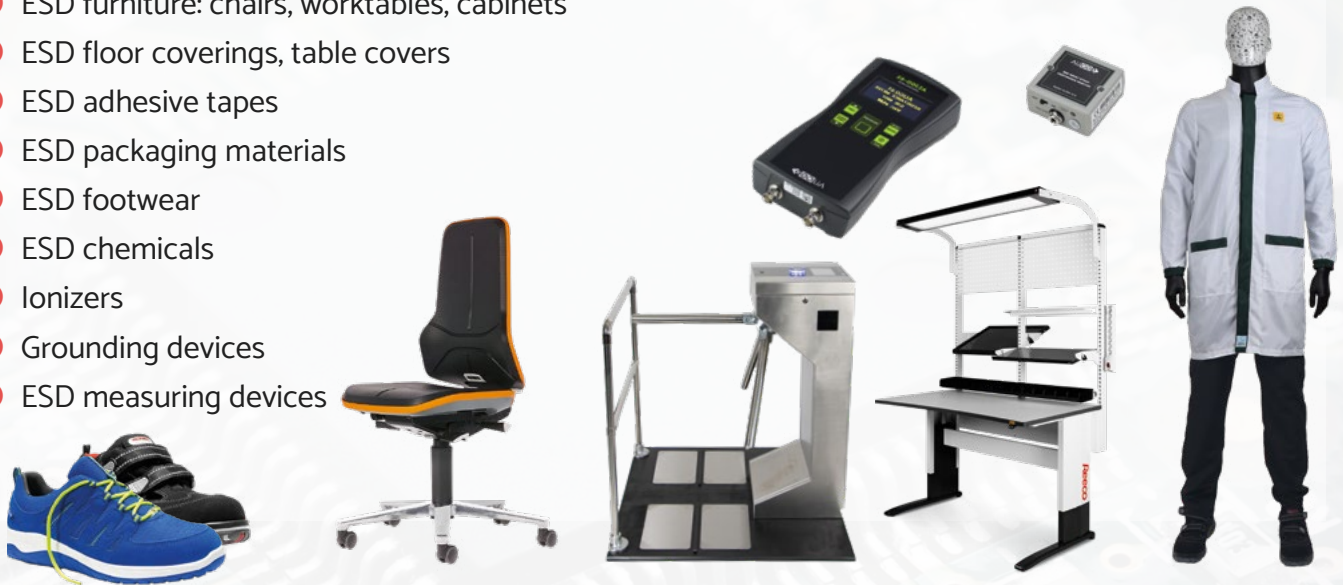
The acronym ESD comes from the English words „electrostatic discharge”. Such phenomena can cause the failure of sensitive electronic components in the short or in the long term, the services and products available from us can help in prevention, product protection.

## PRODUCTS

An important part of our product range is **our own, domestically produced ESD garments selection**. We can satisfy custom needs as well with our own production capacity. You can buy AIJGO ESD testers and ESD entrance systems developed and manufactured by us. We can also provide **AIJGO ESD measuring devices** to our partners.

**Contact us if you need any additional ESD protection product.**

- ESD furniture: chairs, worktables, cabinets
- ESD floor coverings, table covers
- ESD adhesive tapes
- ESD packaging materials
- ESD footwear
- ESD chemicals
- Ionizers
- Grounding devices
- ESD measuring devices



## ESD WISE ESD MANAGEMENT SYSTEM



ESDWISE.COM

IMPROVE THE EFFICIENCY OF YOUR ESD PROTECTION PROCESSES





## ESD AND CLEANROOM GARMENTS

We established our reputation both on domestic and international markets with our quality, self-produced ESD garments. We manufacture them according to the current international ESD standards. You can contact us even if you have special, unique needs regarding ESD clothing and ask for our help – we even produce one piece of a product, if you need it. Customizable clothing solutions: embroidered or printed logos, extra sizes, visibility stripes, armpit mesh, standing collar, conductive elasticated cuff, waist knitter, grounding smock. **YOU IMAGINE – WE PRODUCE**



# AIJGO ESD TESTERS, MEASURING INSTRUMENTS AND OTHER PRODUCTS

- ESD TESTERS ● ESD TESTERS WITH ENTRANCE SYSTEM
- ESD MEASURING INSTRUMENTS ● GROUNDING POINTS

AIJGO products are domestically manufactured, and as our own brand, we personally manage their servicing and product support. The AIJGO testers we produce enable personal grounding tests. They are available in multiple types, ranging from simpler to more advanced models, with various designs and customizable settings to suit your specific needs. You can also purchase ESD tester versions combined with an entrance gate with turnstile, offering various customizable options to suit your requirements. They can be used for checking personal grounding before entering an ESD protected area (EPA), with simultaneous testing of footwear system and wrist strap/groundable ESD smock system. With an **AIJGO-60 walking tester** you can measure the electrostatic charges which are generated on a person who walks on the floor. The device displays the measured values on an LCD display in numerical or graphical mode. The **AIJGO-61 resistance meter** can be used to measure the resistance of different materials, work surfaces and floors. The measured result can be viewed on an LCD display after the measurement. We can provide further instruments as well.





# ESD TRAINING, AUDIT, MEASUREMENT

## ESD TRAINING

**D és Tsa Bt.** is an authorized adult trainer, our license number is: **B/2021/002311**

We use an **online system** for our educational activities, which enables us to register participants, to make teaching materials available and it makes possible custom learning schedules.



Basic education, advanced level knowledge, specific training, further possibilities



E-learning with online, constantly available material



With an instructor in person or online



Blended learning training, a combination of e-learning training with consultation

## ESD AUDIT

In addition to identifying non-conformities, our auditing activities also include suggestions for improvement to ensure that electronic products are manufactured in the safest possible processes from an ESD perspective. In certification audits, we test process compliance and system stability according to ANSI/ESD S20.20 and/or IEC 61340 5-1/5-2 standards.

## OUR ESD AUDIT RELATED ACTIVITIES

- Developer audit
- Compliance audit
- Certification and follow-up audit
- ESD failure detection and risk analysis
- Third party audit
- Audit support
- Professional consultation



## ADDITIONAL SERVICES

- Real-time ESD event investigation
- Project support (design, implementation, maintenance)
- ESD process and related documentation review
- EPA on-site instrumental inspections / reviews (ESD compliance testing of machinery, floor, production area, production line compliance measurement)
- Periodic compliance measurements (quarterly, semi-annual)
- ESD measuring instrument training

## FLOOR TILING – ESD AND NON ESD

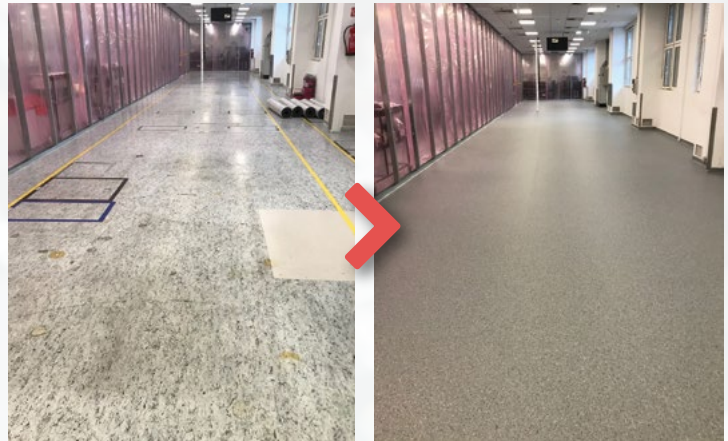
### RENOVATION AND NEW CONSTRUCTION

We can help you with the following flooring designs, whether ESD or non-ESD:

- Resin flooring
- Polished concrete
- Industrial PVC
- Polyurethane topcoat

**Floor repair works you can contact us for:**

- Concrete seams
- Dilatation repair
- Floor covering demolition
- Floor levelling



## INDUSTRIAL CLEANING SERVICES - EVEN IN ESD PROTECTED AREAS

Contact us if you need professional cleaning services for your production area.

- Small and large area cleaning
- Cleaning with expertise even in ESD protected areas
- Using compatible cleaning products in ESD protected areas
- Cleaning of warehouses, industrial halls, office areas
- Occasional and regular cleaning services (daily, quarterly and half-yearly)



**YOU CAN ALSO ORDER OUR SPECIAL CLEANING SERVICE TO EXTEND THE LIFE OF YOUR FLOORS.**



## CLEANROOM PRODUCTS AND SERVICES

- GARMENTS ● CLEANING PRODUCTS ● MOBILE CLEAN ZONE
- IONIZERS ● CHAIRS ● TOOLS



### SERVICES

Different levels of cleanrooms have different requirements for working conditions, environmental conditions and equipment.

OUR COMPANY CAN ASSIST YOU IN THE DESIGN OR MAINTENANCE OF SUCH AREAS WITH THE FOLLOWING SERVICES:

- Cleanroom laboratory complex construction (including dry construction, air engineering, mechanical engineering, filtration)
- Cleanroom tiling on walls or ceilings
- Cleanroom flooring, PU coating

## SOLDERING TECHNOLOGY

### BUY TOOLS AND AUXILIARY MATERIALS FROM US

- Soldering tip
- Hand piece
- Soldering wire
- Soldering tool
- Flux
- Repair station
- Soldering station
- Desoldering tool
- Fume extractor
- Desoldering braid
- Desoldering pump
- Solder tip cleaner
- Tip tinner
- Pick-up tool



**Dino-Lite**  
Digital Microscope  
The Industry Standard

**JBC**  
The Soldering Co.

**Weller**  
Erem

**THERMALTRONICS**

**EMS**

**kurtz ersa**



## SERVICE

### SOLDERING TRAINING

Participants will acquire theoretical and practical knowledge of soldering processes related to the manufacture of electronic products, in line with the requirements of the relevant international standards. After learning about the production technology related to manual and mechanical soldering, you can learn about the technique of soldering in and out of hole and surface mounted components. We offer our training primarily to repair technicians, fault-finding operators, manual soldering operators and specialists who supervise repair processes. The training is modular and the customer has the possibility to adapt it to his own technological specificities.



## ELECTRONIC HAND TOOLS



Wera



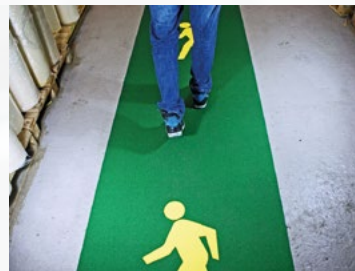
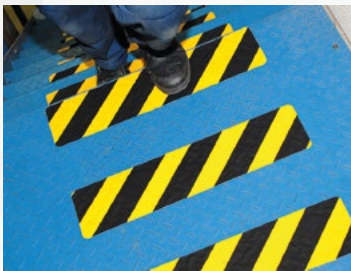
- Tweezers
- Pliers
- Scissors
- Scalpels
- Blades
- Picks
- Vacuum pick-up set



## OCCUPATIONAL SAFETY AND ERGONOMICS

### DURABLE FLOOR MARKING LABELS

- Anti-slip adhesive tapes, also for wet areas
- Reflective marking tapes, pictograms, anti-slip tapes
- Phosphorescent marking tapes, pictograms, anti-slip tapes
- Pallet positioning tapes, pictograms, mouldings
- Adhesive tapes for marking forklift and pedestrian routes
- Pictograms to warn of potential hazards



### SOME OF THE TYPES FROM OUR WIDE RANGE:



### SAFETY BARRIERS, CRASH PROTECTION SYSTEMS

#### FLEXIBLE POLYMERIC BARRIERS

The revolutionary new d-flexx polymeric material is able to „absorb” and dampen impact forces. This can help prevent damage to a gate, the ground or a pallet truck in the event of a collision. This hygienic, chemical-resistant and easy-to-clean polymer material can be an excellent solution for even the most sensitive areas of a factory.

- Flexible material, deforms but regains its original shape after impact
- For outdoor and indoor use
- Made from 100% recycled material
- Easy to install - fixings included in the price
- Can significantly reduce maintenance costs
- Custom sizes are available to suit customer requirements



#### PRODUCT CATEGORIES

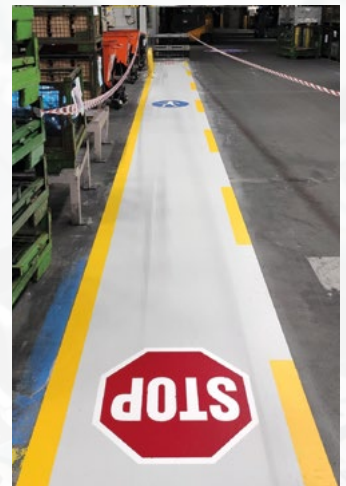
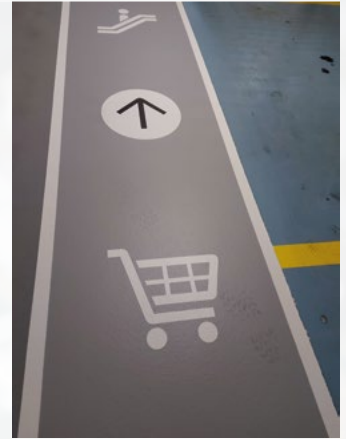
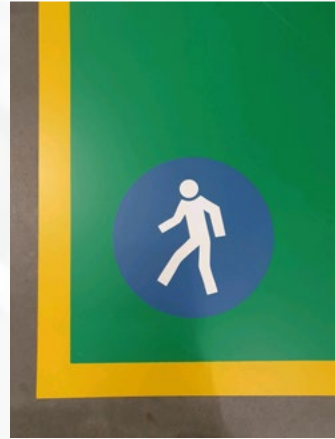
- Security barriers and doors, gates
- Floor mounted safety „traffic barriers”
- Floor mounted safety „traffic barriers” to assist parking
- Kerb barriers
- Protecting bollards
- Rack guards





## SERVICES

### REPAIR AND RENOVATION OF WAREHOUSE ROUTES ROUTE PAINTING, PICTOGRAMS



- Occupational safety and fire safety advice with risk assessment
- Occupational safety and fire training
- Site safety planning (e.g. TMS -Traffic Management System)
- Installation of safety equipment and devices
- Pre-construction consultation on occupational safety and fire safety (e.g.: definition of safety signs)

**DON'T LET YOUR FLOOR SIGNS AND ROUTE MARKINGS IN YOUR WAREHOUSE OR PRODUCTION DEPARTMENT GET WORN OUT.**

**SERIOUS HEALTH AND SAFETY CONSEQUENCES OR EVEN AN ACCIDENT CAN RESULT IF YOUR FLOOR IS NEGLECTED.**

**FOR NEW ROUTE PAINTING OR RENOVATION OF OLD ONES, CONTACT US FOR AFFORDABLE SOLUTIONS.**

bimos

interstuhl

- WORK CHAIRS
- FOOTRESTS
- OFFICE CHAIRS
- STOOLS
- STANDING AIDS
- TOOLS

**INTERSTUHL AND BIMOS CHAIRS FROM D AND TSA BT. ARE BACKED BY A 10-YEAR WARRANTY AND ARE PRODUCED BY ONE OF EUROPE'S LEADING, ENVIRONMENTALLY CONSCIOUS CHAIR MANUFACTURERS.**

The German manufacturer was founded in 1961 and it developed products through scientific research to provide innovative solutions for healthy sitting.

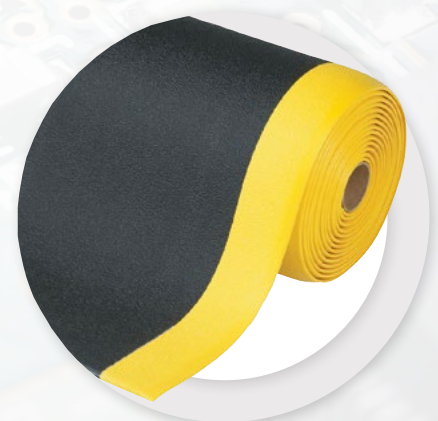
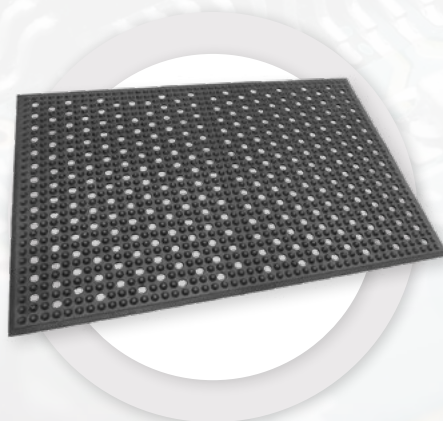
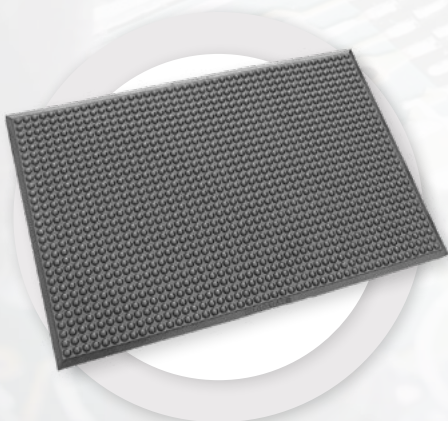
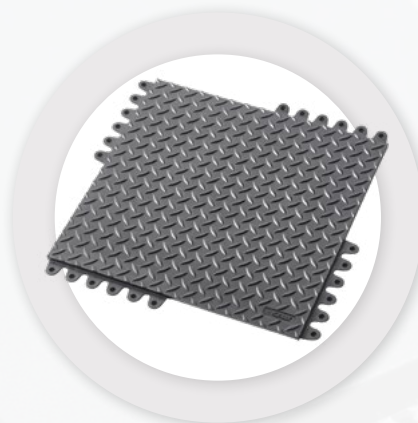
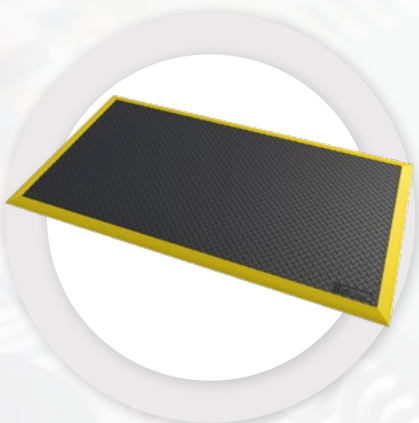
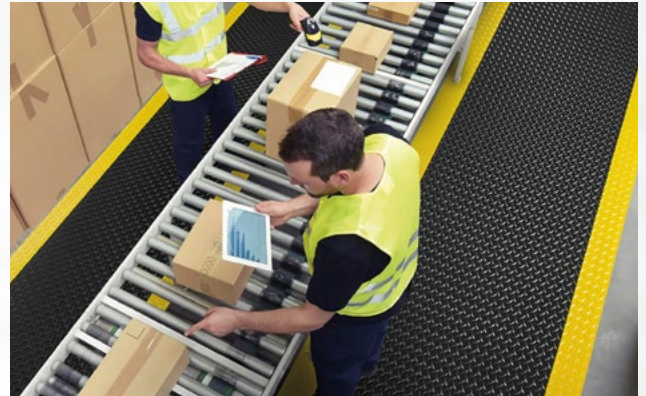
**10 YEAR  
WARRANTY**





## RUBBER MATS FOR THE WORKPLACE

- Oil resistant types
- **Anti-fatigue mats (custom size if required)**
- Products with stand-alone or interconnectable designs
- Various patterns with anti-slip properties
- With yellow edges on request



## SERVICES

We can undertake training and audit in the field of workplace ergonomics, in the areas of individual and collective protection.



## SAFETY FOOTWEAR AND OTHER FOOTWEAR

● SHOES ● BOOTS ● SANDALS ● CLOGS





## SPONSORSHIP



**BME FORMULA RACING TEAM**



**KEFO MOTORSPORT**



**VICTORY KYOKUSHIN KARATE CLUB**



**UNIVERSITY OF DEBRECEN**



# ESDSTUDY.COM

 **E-LEARNING SOLUTION FOR ESD TRAINING**

 **AUTOMATED SYSTEM**

 **ONLINE EXAM**


 **CERTIFICATE**



## CONTACT US


### EXPORT SALES

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**DOMESTIC SALES - ESD PROTECTION, CLEANROOM PRODUCTS AND SERVICES, SOLDERING TECHNOLOGY, ELECTRONIC HAND TOOLS, INDUSTRIAL FLOORING CONSTRUCTION**

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