

# Precision Apparel

ASIAN PRECISION, EUROPEAN ENGINEERING



 **elis**  
CLEANROOM

Your contamination control partner

# ASIAN PRECISION, EUROPEAN ENGINEERING.

At Precision Apparel, everything begins with quality. As a dedicated manufacturer of cleanroom garments for the microelectronics and pharmaceutical industry, we use high-performance fabrics that meet strict IEST and EOS/ESD standards, with every batch tested in an accredited laboratory.

Our Elis Cleanroom designs are engineered in Europe, backed by proven data and decades of expertise, delivering garments that combine comfort, durability, and reliable cleanroom performance.



## We're always close to you!

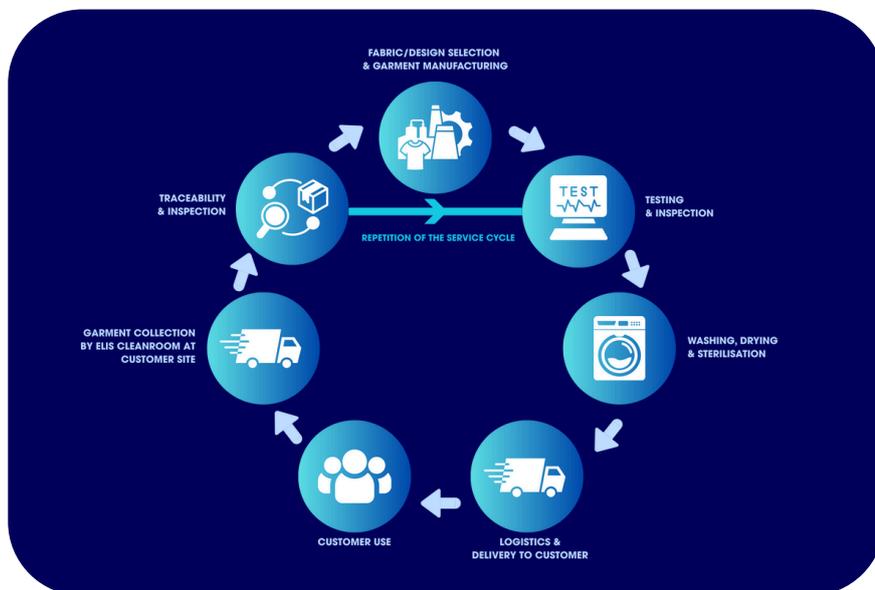
Your One-Stop Cleanroom Total Solution Provider in Malaysia and Singapore. Operating ISO-certified cleanroom facilities (ISO 4, ISO 6 & GMP ISO 5) with fully integrated logistics and dedicated fleet, ensuring secure, controlled, and on-time delivery.

Trusted contamination and ESD control experts since 1984. ISO-certified, in compliance with the Global Recycled Standard (GRS) and Asia's Top Semiconductor Decontamination Service 2025.

# COMPLETE END-TO-END CLEANROOM LAUNDRY SOLUTIONS

## What sets us apart? We don't stop at manufacturing.

We offer a truly holistic and fully integrated approach, which is unique within the cleanroom laundry segment. From fabric selection and garment manufacturing to pooling, testing, washing, sterilisation, and even footwear handling, every step is managed in-house with the highest standards of quality and compliance. With built-in contingency plans and fully backed-up facilities, we ensure uninterrupted service and total peace of mind.





# IN KLANG (MALAYSIA), WE BRING WORLD-CLASS DESIGNS TO LIFE WITH STRINGENT PRODUCTION PROCESSES



LASER CUTTING TECHNOLOGY



CONTROLLED SEWING WORKFLOWS



STRINGENT QC PROCESSES

Our Precision Apparel garments are built to last, maintaining performance even after more than 80 cleanroom wash cycles, when laundered in our facilities that meet strict industry standards.



**GUARANTEED  
80+ CLEANROOM  
WASH CYCLES**

## ACCREDITED IN-HOUSE TESTING FACILITY

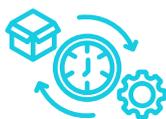


Our ISO 17025 aligned, in-house testing facilities deliver comprehensive evaluations to ensure every garment meets stringent cleanroom and ESD performance standards. Our capabilities include Helmke Drum testing for particle release, Body Box testing, sleeve-to-sleeve and panel-to-panel ESD resistance measurements, surface resistance analysis, and end-of-life validation to confirm long-term performance. Through this rigorous testing process, we verify that every garment performs exactly as designed, before it ever reaches your hands.

## YOUR BENEFITS BY CHOOSING FOR PRECISION APPAREL GARMENTS



LOW MOQ



SHORT LEAD  
TIMES



EUROPEAN CLEANROOM  
ENGINEERING, LOCALLY  
MANUFACTURED



FULL TRACEABILITY,  
BATCH MONITORING



CONSISTENT QUALITY  
BACKED BY RECOGNIZED  
STANDARDS

# OUR FABRICS

Our cleanroom garments begin with the right fabrics. We use high-performance Cleanroom and ESD materials that fully comply with IEST-RP-C003.5, ensuring reliable contamination and electrostatic control from the start. These fabrics provide consistent cleanliness, durability, and protection throughout their lifecycle. Supported by advanced laser-cutting technology and years of cleanroom garment expertise, our fabric selection forms the foundation of every high-quality garment we produce.



	<b>133 GRS</b>	<b>UC114</b>
MATERIAL COMPOSITION	98% PES / 2% CA	98% PES / 2% CA
CLEANROOM CLASS	Up to Class 100 (ISO 5-7)	Up to Class 10 (ISO 4-6)
RECOMMENDED INDUSTRY	Semiconductor/ Fab	Pharmaceutical/ Medical Devices
FABRIC FOCUS	ESD	Sterile
WEAVE	2/1 Twill - 5 mm grid	3/2 Twill - 5 mm grid
COLOURS		



THE GARMENT RANGE >

# ESD OUTERWEAR FOR CONTROLLED ENVIRONMENTS

Cleanroom ESD outerwear is essential because it prevents both particle contamination and electrostatic discharge, two major risks in microelectronics and semiconductor environments. These garments help protect sensitive components from damage, ensure product reliability, and maintain the controlled conditions required for high-precision manufacturing.

## ZETA JUMPSUITS - THE ESSENTIAL PERFORMANCE JUMPSUIT



Both the Zeta Max and Zeta Mat are designed to prioritise secure wear and all-day comfort. Each garment features a concealed front zip and adjustable collar studs, delivering a streamlined appearance and a customisable fit.

**Integrated Hood Suit:** Features an integrated hood with a breathable mesh face mask, elasticated cuffs and waistband for an ergonomic fit, and a practical chest pen loop.

**Maternity Suit:** Engineered with specialised waist elastic to provide flexibility and adaptive comfort throughout pregnancy, ensuring a secure and compliant fit for cleanroom operators.

### ◀ ZETA JUMPSUIT AND ZETA PLUS JUMPSUIT

This practical jumpsuit is designed for comfort and functionality, featuring an upstanding collar with adjustable studs and a concealed front zip for a clean, secure closure. Elasticated cuffs and an elastic waistband provide a comfortable, all-day fit, while a convenient pen loop on the left chest adds everyday practicality.

The closed hood on the Zeta Plus Jumpsuit is engineered for protection and wearer comfort, incorporating an integrated, breathable fabric mouth mask to promote airflow. Adjustable back studs ensure a stable, personalized fit during extended use. Additional variants are available to suit specific application requirements.

### ZETA MAX AND ZETA MAT JUMPSUIT



## ALPHA MAX JUMPSUIT - FAST GOWNING. SECURE COMFORT



### ◀ ALPHA MAX JUMPSUIT

This protective jumpsuit is engineered for fast, efficient gowning and degowning, featuring a conveniently positioned between-the-legs zipper for ease of gowning and removal.

An integrated hood with a face mask constructed from the main garment fabric provides consistent, uniform protection. Elasticated cuffs and an elasticated waistband ensure a secure, comfortable fit throughout extended periods of use.

## BETA SMOCKS - COMPLIANCE ENGINEERED FOR COMFORT



### ◀ BETA SMOCK

This ESD smock combines a professional appearance with practical functionality, featuring an upstanding collar with adjustable studs and a concealed front zip for a clean, secure finish.

A seamed hem and elasticated sleeves provide a comfortable, secure fit in controlled environments, while a convenient chest pen loop adds everyday practicality.

### BETA MAX SMOCK ▶

This ESD smock offers a professional appearance with an integrated hood, secured by a concealed front zip for a clean, streamlined finish.

A seamed hem and elasticated sleeves provide a secure, comfortable fit in controlled environments, while a practical chest pen loop adds everyday convenience.



## SIGMA TROUSERS



Cleanroom trousers featuring a comfortable elastic waistband and elastic cuffs at the ankles, ensuring a secure fit and reduced particle release during movement.

## GAMMA SMOCK



This specialised smock is constructed from PVC acid-resistant fabric, engineered to resist penetration by selected acid grades and provide enhanced protection against chemical splashes beyond that of standard fabrics.

## CAP AND FACE MASK



This reusable, washable face mask is made from breathable fabric and features ear loops for a secure and comfortable fit.

This cleanroom cap features a protective visor and a balloon-style design to reduce particle escape. The elastic back ensures a secure, comfortable fit during extended wear.

The efficient gowning design features a round neck collar with adjustable Velcro®, a concealed side button closure, and additional collar fastenings for secure wear. A seamed hem and elasticated sleeves ensure a stable, comfortable fit in acid-handling environments.

## OVERSLEEVES



These cleanroom oversleeves feature elastic compartments all over for a secure, snug fit that ensures effective contamination control.

In ESD environments, they protect the operator and work surfaces from particle transfer and help reduce the risk of electrostatic discharge by preventing direct contact with sensitive components.

# FOOTWEAR



## OVERSHOES



These cleanroom overshoes feature a front zipper, an elastic top with stud buttons, and a long textile shaft with elastics for a secure fit. A ribbon with buckle over the foot and an anti-slip sole ensure safety and stability in controlled environments.



## ESD SAFETY BOOTIES



Long textile shaft with elastics for a secure fit. To combine with ESD safety shoes. These booties feature a front zipper, elastic at the top with stud buttons for adjustments.



## ESD SAFETY SHOES



ESD Safety Shoes are purpose-designed footwear that safely dissipate electrostatic charge from the wearer to the ground, reducing the risk of electrostatic discharge in sensitive environments such as electronics manufacturing, cleanrooms, and laboratories. In addition to ESD protection, they incorporate essential safety features including toe protection and slip-resistant soles, ensuring comprehensive workplace safety without compromising comfort or performance.



## FMRS SHOES

These ESD safety shoes are designed for cleanroom environments, with a rubber anti-slip sole, lightweight and durable construction, and resistance to ground contact pins. They help prevent bacteria and odor buildup and feature a unique ID for full traceability.

# 02

## CARRY BAGS

Carry bags in ESD environments are essential for safely transporting sensitive electronic components, tools, or cleanroom garments. They are made from ESD-safe materials to prevent electrostatic discharge, while also helping to maintain contamination control by keeping items enclosed and protected from dust, particles, and other contaminants.



### < SLING BAG

This cleanroom sling bag features a single spacious pocket, secured with a flap and stud closure.

Providing easy access while keeping contents protected in controlled environments.

### COMPACT BAG >

This compact cleanroom bag features two carrying handles, a top zipper closure, an internal ID pocket, and a central compartment that can be unzipped for easy organization and access.





# PRODUCT OVERVIEW >

# PRODUCT OVERVIEW

## ESD OUTERWEAR FOR CONTROLLED ENVIRONMENTS

### JUMPSUITS (p. 6-7)



ZETA MAX jumpsuit



ZETA jumpsuit  
(also available with  
integrated ZETA PLUS  
hood)



ZETA MAT jumpsuit



ALPHA MAX jumpsuit

### TROUSERS (p. 8)



SIGMA trousers

### SMOCKS (p. 7-8)



BETA smock



BETA MAX smock



GAMMA smock

### HEADGEAR (p. 6-8)



ZETA PLUS hood



Cap

### FACE MASK (p. 8)



Face Mask

### OVERSLEEVES (p. 8)



Oversleeves

## FOOTWEAR (p. 9)



Overshoes



ESD safety booties



ESD safety shoes



FMRS shoes

## CARRY BAGS

(p. 10)



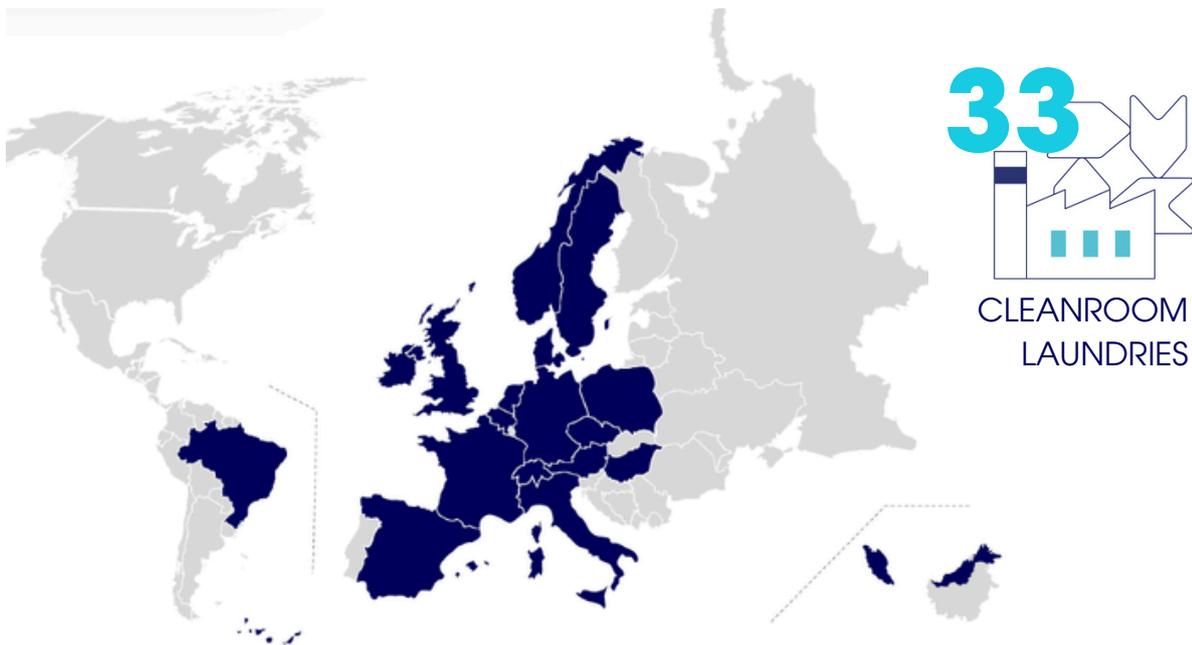
Sling bag



Compact bag

# ELIS CLEANROOM, YOUR **CONTAMINATION** **CONTROL PARTNER**

An optimal cleanroom contamination control solution is essential for every company operating in a cleanroom environment. We provide **360° cleanroom contamination control solutions for our customers.** **With decades of experience within the cleanroom industry,** we are the optimal partner for you!

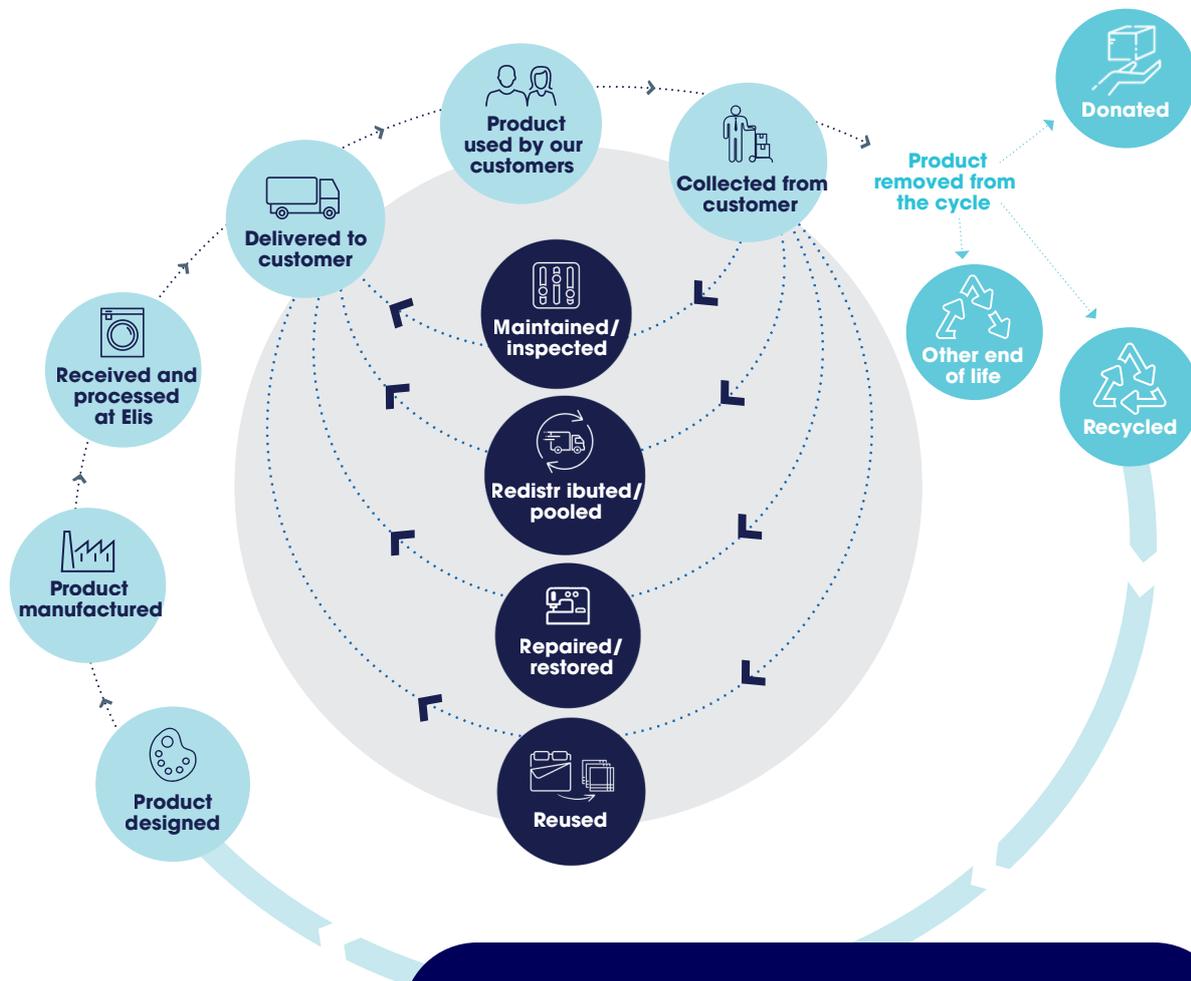


## **ELISCONNECT:** **YOUR SMART DASHBOARD FOR GARMENT** **TRACKING, STOCK MONITORING, AND** **CLEANROOM COMPLIANCE!**

The customer accessible web-based dashboard ElisConnect can be used in isolation to track your garments, monitor stock and ensure your operators are changing garments on every entry and exit. The data collected is translated into an overview that matches your KPIs. A transparent life-cycle for your cleanroom garment!



Entrust your controlled environment into our care, let us handle everything regarding purchase, stock, decontamination, replacement, maintenance and delivery of our cleanroom solutions, so you can concentrate on what you do best – your core business.



## OUR CIRCULAR SERVICES MODEL

Our business model is based on a circular product as service model and emphasises services over products and rentals over purchases. The service model works in “loops” ensuring our reusable cleanroom garments and accessories stay in circulation for as long as possible. This is enabled by maintaining, pooling, repairing and reusing garments along the way.

Finally, end-of-life cleanroom textiles are given a new life by reuse or recycling.

# **elis** CLEANROOM

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[elis.com](http://elis.com)

follow us:

**REACH OUT:**  
**YOUR SOLUTION IS JUST**  
**A CALL OR CLICK AWAY!**



Watch our video

