





Persistence is to the character  
of man as carbon is to steel.

Napoleon Hill

## Where his heart is

**TINMAN** is dedicated to being the global leader in implementation of innovative solutions for stainless steel furniture in clean rooms. Our products are result of experience and knowledge that was collected through numerous projects that our company made in the past.

### **Quality standards are the key element to our success.**

The basic principle that guides us in the process of designing elements is to provide ease of use and maintenance of furniture. Optimizing working conditions for each user and offering them the highest level of utilization and comfort.

Using all its advantages, our innovative solutions make TINMAN furniture ergonomic and easy to maintain.



THE CONTINUOUS INVESTMENT IN BUSINESS DEVELOPMENT, IMPLEMENTATION AND STEADY IMPROVEMENT OF THE SERVICE QUALITY, IN ORDER TO ENSURE THE EXCELLENCE OF OUR FINAL PRODUCTS, MAKE OUR BRAND RECOGNIZABLE AT GLOBAL MARKETS.



We keep introducing innovations into our work in the sphere of contamination control and implement constant monitoring system throughout the production process. Working with trained and professional staff helps us to fully ensure the satisfaction of our customers, as well as to obtain complete safe and comfortable utilization of our products in critical areas.

## Where his heart is



Furniture is made of stainless steel **AISI-304 or AISI-316** with high 2R gloss polished finish. Excellent cleaning accessibility is ensured through masterly design and low surface roughness of polished stainless steel.

Produced by taking into account all the peculiarities of its use in cleanroom TINMAN's furniture is designed with special attention given to details such as **closed circuit welded joints, all rounded corners,** minimal joints and the prevention of dust accumulation and therefore allowing easy cleaning. Depending on customers request furniture is made **solid or perforated,** with antistatic castors, anchor or non-slip feet. Perforations enable air permeability of 40%, for unobstructed laminar air flow.

Special design for **flatt packet shipment** and easy assembly at site.

Modular furniture design enables adding elements which improve working area.

TINMAN's cleanroom stainless steel furniture meets the highest standards. Carefully designed elements are easy to assemble, use and maintain.

# Benches

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**Benches** have very important position in cleanrooms as a barrier between rooms maintaining the integrity of cleanroom environment with different classes. Tinman's uniquely designed benches are ideal in all gowning areas.

Our engineers have specially paid attention to ergonomics and maximum comfort for personnel what can be seen through detail of rounded front and back edges of the bench.



# Benches



can have additional storage elements  
with or without bootie racks.



Two or more benches can be connected together to create the ideal step over bench,  
with an optional hand rail, swing over bench or gowning platform.

Legs can be anchored with non-slip leveling feet - made completely of solid  
material so that there is no retention of particles, or castors if mobility is needed.



Tables and workstations

# Tables and workstations

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## Tables are the most used working area and one of the basic elements in cleanrooms.

Like most of TINMAN furniture, this element is produced as perforated, solid or in combination with HPL compact table top.

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Our engineers have specially paid attention to ergonomics and maximum comfort for personnel what can be seen through detail of rounded front edge of the table. Tables can be produced in two options, adapted for sitting or standing position.

**TINMAN** engineers designed numerous options for these elements which can greatly improve working area. Optional elements include: fixed / adjustable shelves, drawers, cupboards, flat screen holders etc. The legs can be anchored with levelling feet - made of solid material so that there is no retention of particles, or castors if mobility is needed.



# Dispensers

**TINMAN** DESIGNED DISPENSERS MAXIMIZE THEIR UTILITY, SIMPLICITY OF USE AND EASE OF MAINTENANCE.

The elements are made with rounded edges which allow easier cleaning and maintenance. Exceptional design allows excellent visibility of content and its safekeeping. Ease access lid enables care free top loading while see-through slots enable easy visual inspection of fulfilment. Snag free pullout is ensured through carefully designed trap bin.

Thanks to modular design, compartments are easy to extend.



# Dispensers



**Dispensers** are easy to use and have compact design enabling workspace to be properly fitted for different user needs.



# Storage cabinets

**CLEANROOM CABINET** IS DESIGNED TO STORE GARMENTS, CLEANING MATERIALS AND EQUIPMENT, STORING AND RELOADING PURPOSES.

**Versatile TINMAN cabinets** come with flat or slope top, adjustable shelves, drawers, solid doors or doors with acrylic openings, air purification system, fixed or mobile feet.

TINMAN offers a wide range of possibilities for cleanroom cabinets. The slope top model is especially useful in areas of extreme cleanliness, where can be no retention of dust on surfaces.

**Legs** can be anchored, with non-slip leveling feet or with castors.

**Options** are limitless and they depend on your needs and demands.



They can have hangers only, shelves only or a combination of both.

**Shelves can be perforated or solid, depending on demand. Shelves can be regulated to a custom height by the user.**

Specially designed hangers are fixed in one position so clothing does not touch in between and attached to a steel perforated frame which is air permeable allowing air to flow between garments and through them.

**Filter** is also an optional feature when it comes to cabinets. It is used for purifying air and increasing the level of hygiene.



# Pass-through cabinets

**PASS-THROUGH CABINETS** ARE SPECIALIZED FOR CONTAMINATION FREE TRANSFER OF MATERIALS IN AND OUT OF THE CLEANROOM. THEY REDUCE UNNECESSARY CONTAMINATION OF THE CLEANROOM.

Every cabinet is equipped with an optional amount of hangers and / or shelves. Hangers are fixed in one position so that clothes do not touch in between.

Double sided doors can be made with a solid or acrylic infill. All pass-through cabinets have interlocking system to disable doors to be open at the same time from both sides and electromagnet that ensures safety locking. Warning light indicates that door is open and increase visibility insight the cabinet.

Pass-through cabinets are produced without feet in order to fit into the wall perfectly and minimize gaps.

**TINMAN Pass-through cabinets** are convenient solution for contamination free transfer of materials in and out of the cleanroom. They reduce contamination between areas and allow room to room transfer of material and samples without contamination. Interlocking allows only one door open at a time.



# Laminar flow hoods, zone and cabinets

**Tinman vertical laminar flow hoods, zones and workstations for any space and cleanliness requirement.**

A laminar flow cabinet is carefully designed to prevent contamination of semiconductor wafers, biological samples, or any particle sensitive materials. All laminar furniture is made of stainless steel with no gaps or joints where spores might collect, also preventing accumulation of dust and allowing easy cleaning.

**Laminar flow cabinets** may have a UV lamp to sterilize the interior when not in use.



All elements are available with HEPA or ULPA air filtration modules.





Shelves

# Shelves



## Shelves are carefully designed to suit your particular needs.

Height adjustable shelves increase usability and provide numerous options for storing different equipment whether they are made solid or perforated. We offer a wide range of optional parts like - shelves, hangers and mirrors and a possibility of their mutual combining.

**Cleanroom shelves** are designed to store garments, containers, photo masks, etc. with minimum footprint. Our shelves can be mobile, anchored or with non-slip leveling solid stainless steel feet.



**TINMAN's shelves** are designed for the specific conditions and in cleanrooms with special attention given to details such as closed circuit welded joints, all rounded corners, minimal joints and the prevention of dust accumulation therefor allowing easy cleaning.



Garments racks



# Garment racks



**SPECIALLY DESIGNED HANGER UNIT SYSTEM  
FOLLOW TINMAN DESIGN LINE AND ENSURE  
EASE OF USE AND MAINTENANCE.**

Unique system of fixing hangers in one position allows clothing not to touch in between. They are attached to a steel perforated frame that is air permeable allowing air to flow between garments and through them. **Hangers** are made out of stainless steel making them durable and resistant to deformations. Garment racks can be fixed to wall, mobile, anchored or with leveling solid stainless steel feet.



# Cleanroom sinks and workstation sinks

Sink units are critical for maintaining of integrity in clean room environment.



## **TINMAN design**

gives us the opportunity to have sinks as free standing, wall mounted, modular or closed in order to prevent potential contamination of protected area.

Special coverings are designed for easy access and service of installations in drain area.

With single or double sink, deep drawn seamless design, all units are with radius corners and different bowl type is equipped with back splash that protects the wall from spraying.





Carts

# Carts



Tinman's transport carts are designed for safe and ergonomic transport in cleanrooms. As an effective strategy for increasing the safety and security of your work environment.

With a variety of ergonomic design options **Tinman** offers customizable additions that can be adjustable to your needs. They are specially designed to firmly hold products.

Various options include adjustable fences as well as shelves, which can be produced as perforated or solid.

Our design enables efficient height regulation of shelves or fences every 50 mm by user's needs. Anti-static castors greatly improve stability and movability of transport carts.



Waste receptacles



# Waste receptacles

**DISPOSAL BINS** ARE USED AS THE MAIN ELEMENT FOR UNUSED SUPPLIES AND MATERIALS. WITH SIMPLIFIED INSTALLATION OF PLASTIC DISPOSAL BAGS. THEY ARE PRODUCED IN TWO OPTIONS, MOBILE ON WHEELS OR WITH LEVELING FEET MADE OUT OF SOLID STAINLESS STEEL TO MINIMIZE PARTICLE RETENTION AND INCREASE STABILITY.

Bottom plate does not attract dust and enables easy cleaning. Simple design gives you the opportunity to combine bins with each other or, if necessary with the addition of the cabinet (cabinet disposal) or wipe down table.







Where his heart is

[www.tinmanclean.com](http://www.tinmanclean.com)