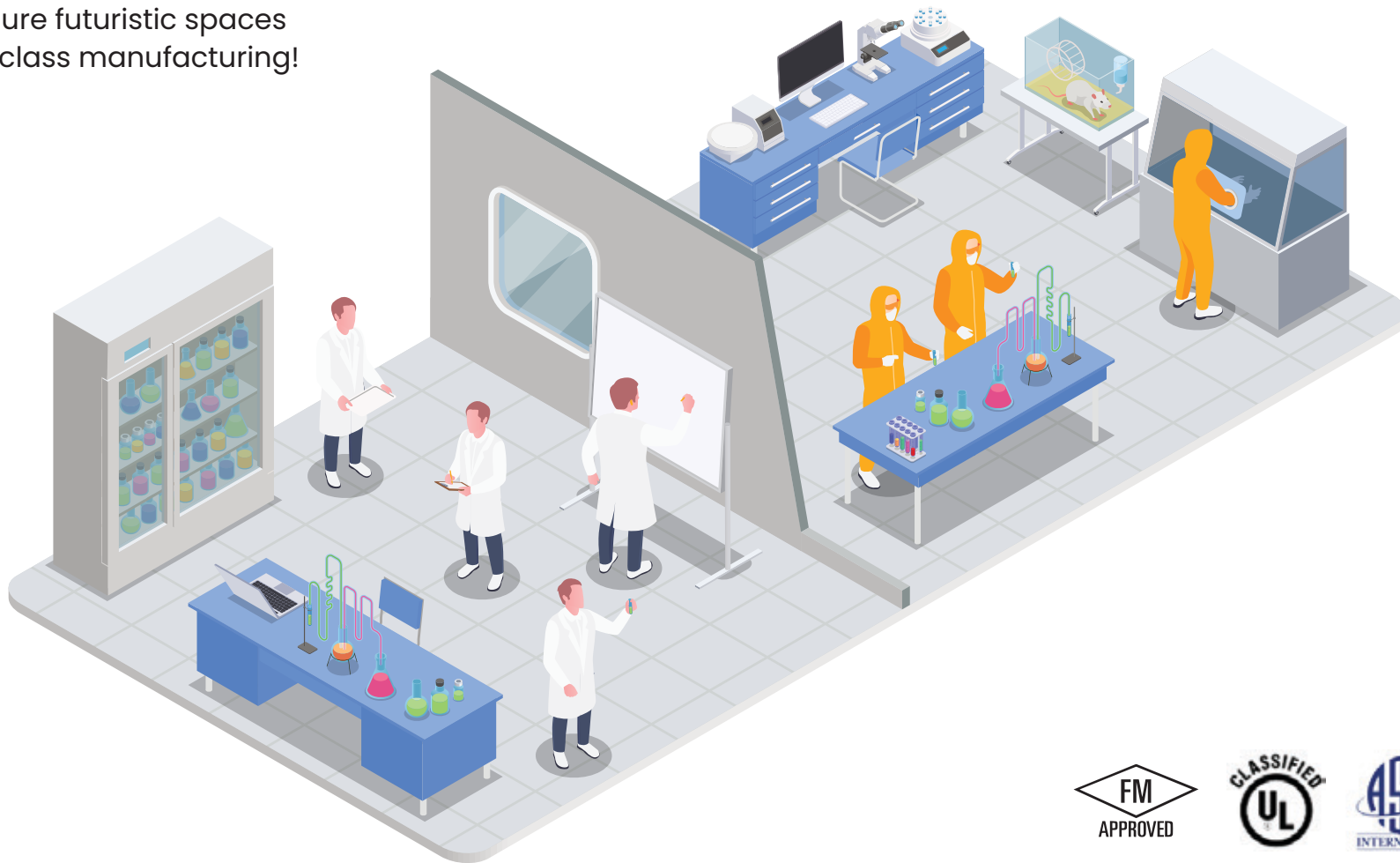


SCIENCE MEETS **PRECISION**

Crafting pure futuristic spaces
for world-class manufacturing!





Taikisha Group Overview

Taikisha Group-experts in building cleanroom environments worldwide.

Founded over 110 years ago, Taikisha Group is one of the oldest companies in Japan. It caters to integrated cleanroom solutions and HVAC engineering expertise required in modern industries. We manufacture a wide range of products used for cleanrooms in the Pharma, Life Sciences, Labs and Healthcare Industries.

Experience has taught us to respond to customised needs. We have gathered a supportive team that engages in research and development of the latest technology.

Discover our technology and control process for cleanroom development and HVAC systems & ceilings. From design concepts to installation and services, we offer a complete range of services and products.

Today, we are one of the leading global companies with trusted customers. We provide solutions that are energy-efficient and reliable for mission-critical applications.

As we grow, the group continues to research and develop perfect solutions for quiet operations in commercial facilities.

Construction Track Records (Mechanical Work)

REPRESENTATIVE

**Masashi
Osada**



(Representative
Director, President
Corporate Office)

ESTABLISHED

**Year
1913**



(Marked 110
years)

SALES

**214.7
Billion yen**



(FY2022)

CONSOLIDATED SUBSIDIARY

**31
Companies**



(Japan 4 / Overseas 27)
(As of March, 2023)

NUMBER OF EMPLOYEES

1,611
Non-Consolidated
4,890
Consolidated



(As of March, 2023)

STOCK EXCHANGE

**Prime
Market of
Tokyo Stock
Exchange**



(Code:1979,Industry:Construction)

BUSINESS AREA

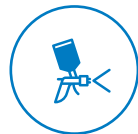
**Design and
construction
of the following
facilities**



Building HVAC



Industrial HVAC



Paint Finishing
System



Gardens By The Bay (Singapore)



Petronas Twin Towers (Malaysia)



Suvarnabhumi International Airport (Thailand)

Utilizing the technology and global network that we have cultivated over the past 110 years since our establishment, we are expanding our fields of operation.

TAIKISHA'S CORE

Explore Energy, Air, and Water

Create Optimal Environments



Building HVAC

Create comfortable spaces for human beings



Industrial HVAC

Create optimal environments for manufacturing



Paint Finishing System

Create optimal environments for manufacturing



Energy Management System (EMS)

Create earth-friendly environment using ICT



Plant Factory

Create optimal environments for Plants



Automation

Create people-friendly environments through automation

Taikisha HQ office (Tokyo, Japan)

UPHOLDING THE
GLOBAL STANDARDS
THAT SHAPE STANDARD
CLEANROOM SYSTEMS



Company Profile

Nicomac Taikisha Clean Rooms Private Limited is an emerging leader in mission-critical cleanroom design and HVAC engineering expertise. It is a part of the prestigious Taikisha Group, Japan, with in-house cleanroom experts. As enabled partners, the company offers a full range of design and build services with European and Japanese machinery. Our systems and technology undergo continuous upgrades to meet client needs. We are trusted partners for several clients in North America, India and the ASEAN markets.

Our technical expertise lies in offering turnkey solutions and building projects suitable for contamination-free environments. Several global clients have benefitted from our 110 years of combined knowledge related to development and manufacturing. Our team trains operators and explains protocols to overcome challenges and risks. We handle minor modifications and an entirely new design in detail.

Our business potential has expanded with HVAC engineering to meet the needs of new and existing clients. We provide a wide range of products like chillers, and air handling units suitable for the mission-critical pharma sector. Currently, our business revolves around markets that benefit from our design and manufacturing expertise.

Visit our technology R&D centre to understand how our quality products meet validations and global standards.

QUICK FACTS

- ◆ In India, we adhere to domestic regulations.
- ◆ Our installations are certified by the factory manual.
- ◆ Our major clients are in the Pharma and Biotech Industries.
- ◆ Products like Walls, Doors, Windows and False Ceilings are fire-resistant accordingly, to international standards.

With high-performing products and well-designed ecosystems, you are assured of product quality control and compliance with the latest regulatory standards.

Are you ready to build a high-quality cleanroom with our expertise?





Our Advantage

The next decade of cleanroom technology is geared up to address gaps in pre-fab and modular cleanrooms. Our experts identify safer environments for unbeatable applications and the protection of production processes. Tactical parameters reduce the possibility of impurities with practical solutions. This is an advantage we share with our stakeholders and clients to improve their product standards.


















We take crucial steps to manufacture cleanrooms.

- 1 Adaptation to trending technologies for design and construction.
- 2 Addressing operational issues, regulatory hurdles, and contaminated building materials.
- 3 Customised design types and applications fit for Cellular Gene Therapies, Living Organism Manufacturing, Biotechnology and Nano Technology.
- 4 We design the traditional way, modular constructions, and install pre-fab units.
- 5 Successful projects include Autonomous/Electrical/HVAC re-qualified cleanrooms.
- 6 Single units or multiple units can be installed onsite.

As new therapeutic entities mature, processing requires ideal space and a safe environment to thrive.

Industries We Serve

For the past two decades, our solutions for diverse industries have been based on the aim of a safe environment in industries like:

1  Pharmaceuticals	2  Biotechnology	3  Hospital	4  Semiconductors	5  Nano Technology
6  Medical Devices	7  Aerospace	8  Optical Manufacturing	9  Automobiles	10  Medical Sector
11  Food & Beverage	12  Chemical Sector	13  Food Processing	14  Solar Panels	15  Precision Engineering

✦ Solutions

Rapid construction within timelines	Cost-effective designs	Efficient manufacturing for quick completion of installations	Flexible configurations and expansion	Options for customisation
Scalability for production	Complete compliance with prevailing industry standards	Minimised environmental impact and disruptions	Quality assurances	Maintenance and monitoring

Reach out to us to make your project a reality.





Product Range

Our product range for the new generation of cleanrooms includes:

- 1 Walls with full visibility and access to natural light
- 2 Ceilings
- 3 Doors & windows
- 4 Pass Boxes
- 5 Sampling & dispensing booths
- 6 Cleanroom accessories
- 7 Insulation

Product descriptions and designs

✦ HPL modular cleanroom walls

HPL is the perfect material for wall and ceiling panels for a cleanroom. It contains layers of cellulose fibres embedded with resin. They are subjected to a high-pressure process with heat and pressure. It causes fluidisation and polycondensation of the resins. It results in a homogeneous, anti-scratch, non-porous material, antibacterial laminate panel. It is sealed with an aluminium framework.

✦ Benefits

- 1 High mechanical anti-scratch cleanroom material.
- 2 Panel with inbuilt return air system.
- 3 Flush with any kind of accessories built in.
- 4 Easy panel cutting and possible job site modification during wall installation.
- 5 Resistant to cleaning agents.
- 6 Easy to clean.





Galvanised Powder coated / Pre-Coated / Stainless steel Walls & Ceiling

✦ Benefits

- 1 High mechanical resistance due to high thickness.
- 2 30 mm - 100 mm with inbuilt return air incorporated.
- 3 Resistant to low humidity and to High RH humidity variations.
- 4 Resistant to cleaning agents.
- 5 Easy to clean.

Glass wall system

It enhances the working environment for operators by increasing luminosity. They handle operations with care in areas with full glass cleanroom walls. We supply attractive and fully visible glass cleanroom wall systems in any size. Glass walls are easily assembled and disassembled for equipment integration without the need to remove ceiling and flooring profiles.

FDA inspectors welcome glass walls because they allow for inspections of cleanroom system areas without entering and risking contamination. For secondary areas, we develop a fully or half-glazed open space separation wall with dedicated rounded aluminium profiles.

A true modular cleanroom system with a glass wall allows full visibility and access to natural light.

Cleanroom doors

They are configured as single/double swing-out or as horizontal sliding with manual, automatic or semiautomatic operations. We assemble door panels for Pharma with the same panels as the wall system. Swing-out cleanroom doors are designed to fit flush with both sides of the wall panel system and are supplied in several dimensions.

All external frames are manufactured with rounded anodised or epoxy powder-coated aluminium profiles with airtight dual gaskets. All fasteners for the hinges and latches can be recessed into the door frame. Standard hinges allow doors to swing 180° degrees from full open to full closed position.

We provide pharmaceutical cleanroom doors with interfacing profiles for a flush and easy installation on existing walls.

✦ Benefits

- 1 Airtightness, proved by CFD Computational Fluid Dynamics test.
- 2 A large variety of swing-out pharmaceutical doors.
- 3 Manual, semiautomatic and fully automatic sliding doors.
- 4 Unique hinges ensure a long life.
- 5 Custom dimensions.
- 6 PLC-controlled interlocking system for GMP compliance.
- 7 Heavy-duty structure for high durability.
- 8 Full compatibility with chemicals used for cleaning agents.



✦ Walk - on Suspended False Ceiling for cleanrooms.

It is flexible and easy to assemble. It is installed before or after wall cleanroom installation, sitting on top of the walls or leaving the walls protruding above the ceiling, room by room. This kind of false ceiling is made by means of insulation sandwiched between two layers of metal sheets made by epoxy powder coating. All sides are closed by framing.

It offers a smooth and coplanar cleanroom surface to clean. The bearing aluminium profile is housed by clicking in between panels. There is a threaded tension bar with an adjustment ring to be fastened to the existing ceiling.

✦ Benefits

- 1 Framework for cleanroom filters and light fixtures.
- 2 Certified walk-on ceiling panel.
- 3 Minimization of joints.
- 4 Good Aesthetics with an attractive appearance.
- 5 High mechanical resistance.

✦ Window systems

All units are double-glazed and fit flush with both surfaces of the wall panel system.

Each unit is constructed of two 6 mm toughened glass. It is completely silicone sealed and includes a micro-perforation profile with an integral silica gel moisture condense absorption system.

✦ Benefits

- 1 The window system is specially designed for cleaning needs of the pharmaceutical cleanroom.
- 2 Designed to eliminate fogging or condensation.
- 3 Rounded or square corners add to the strength and enhance their appearance.
- 4 Fully flush to the wall.
- 5 Double glass and safety film
- 6 Full glass panels of any size are available.

✦ Cleanroom accessories

They are essential to avoid dust deposits and allow perfect cleaning. Below are the standard accessories required for cleanroom construction.

We provide:

Coving R-70/R-50mm

3D, 2D corner covings

External vertical corner

✦ Passboxes

With UV Lights

Static Pass Box

Ventilated Pass Box

Dynamic Pass Box

Mechanical or Electrical Interlocks

Stainless Steel AISI 304 Chambers

Timed Controlled Opening

Available in Custom Sizes



Product Catalogue

Floor to wall connections



Wall to wall connections



Wall to ceiling connections



Wall Panels Skin



Wall to ceiling connections



Glass Walls



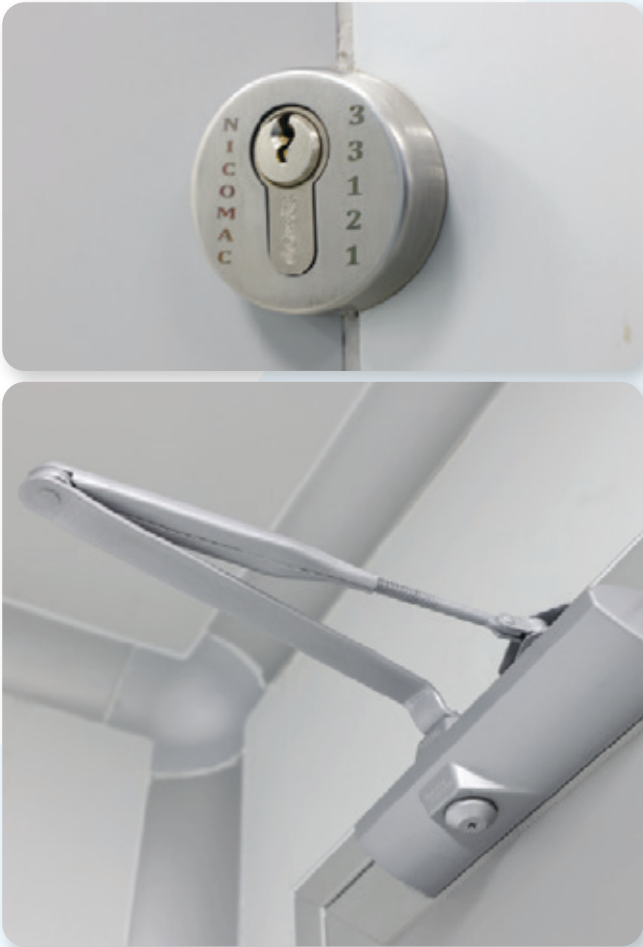
Window units with dual panel safety glass



Cleanroom Doors



Cleanroom door accessories



Emergency Door



False Ceiling



False Ceiling



Continuous Glass



Digital synchronized clock



Raiser - Return Air Riser



Fire extinguishers Box



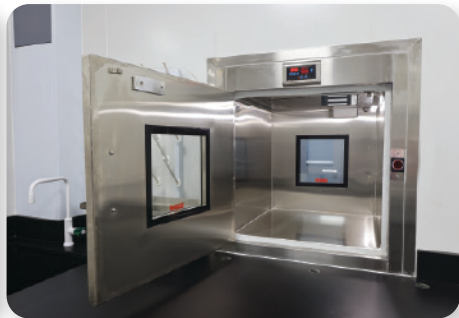
Floor bumper guards



Laminar airflow (LAF)



Pass-box (Floor and Wall)



Our Services

Our services for cleanrooms are created for specific business needs and environments. They cater to different levels of expertise as required. The aim is to maintain optimal hygiene, ensure safety and upgrade the system if required. Our experience in innovation, engineering services and customer commitment are important to remain leaders in the industry. For more than two decades, customers have relied on our staff for functionality, clean manufacturing facilities and healthy environments.

Advantages of our approach

- ★ A robust contamination-free environment that goes beyond daily cleaning.
- ★ Using a multi-step level for disinfection to ensure pathogens never return.
- ★ Best industry practices for inspections and standard protocols.

The company gives three-pronged services dealing with documentation, installation and HVAC solutions.

We follow best practices for cleanroom design with documentation and management systems with Electronic systems. With unique data capturing, we get alerts of task performances and follow-up actions. All layouts and drawings for ceilings, workstations, doors, and elevations are provided.

End-to-End services also include the presentation of quality materials, code regulations, and plant regulatory standards. The focus is aimed towards efficiency, operations, compliance and scalability. We adhere to cGMP rules and give guarantee of completion. Our certifications are testimony of these services.

NICOMAC has a panel of specialists who deal in the installation of cleanrooms. With decades of experience, the services are impeccable and worthy of expansion. A list of detailed instructions is followed for installation. Construction is done with minimal disruption. If you are worried about technical or building issues, our specialists will handle them.

The biggest advantage of using our services are handling time constraints, quick electricity empanelling, structural integrity, and pre-fabrication.

HVAC solutions

We believe in accountability and responsibility for our installed projects. We provide HVAC solutions that match the customised needs of commercial facilities. Each aspect of your investment is protected by our qualified specialists. We are committed to monitoring, analysing, and also maintaining the system requirements. It also includes looking after the entire lifespan of the installations.

We serve several industries that require optimal HVAC. Critical environments that need HVAC solutions are Microbiology labs, Pharma, Food & Beverage, Healthcare and Electronic devices units.

Services also include HACCP, condensation, and clearing of bugs, insects, and rodents. In areas requiring mould prevention, we opt for low-temperature storage and deodorising options.

Our technicians provide advanced maintenance and repair services for industrial chillers. We have trained staff to cater to the customised needs of a facility to work on air ducts, AHUs, and Chillers. Doing the job in the right way ensures the systems work for a long time.

Our validation system monitors the performance and operational qualifications of the systems. Four points are critical in validation to qualify:

- 1 Design
- 2 Installation
- 3 Operation
- 4 Performance

Our Engineering Services



HVAC



Validation



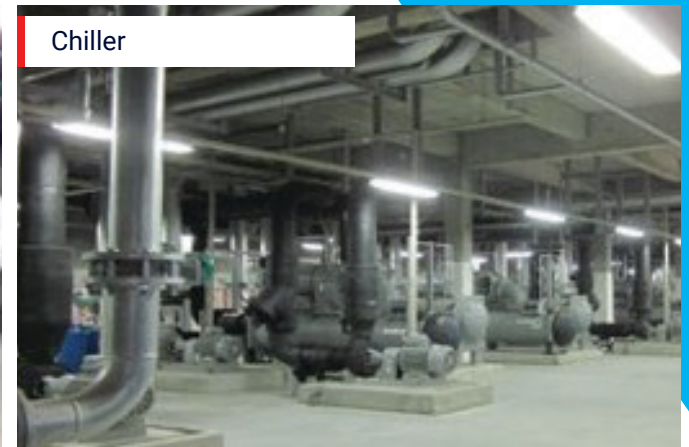
Validation



Air Duct



Air Handling Unit (AHU)



Chiller

Other Services

Electrical & Automation



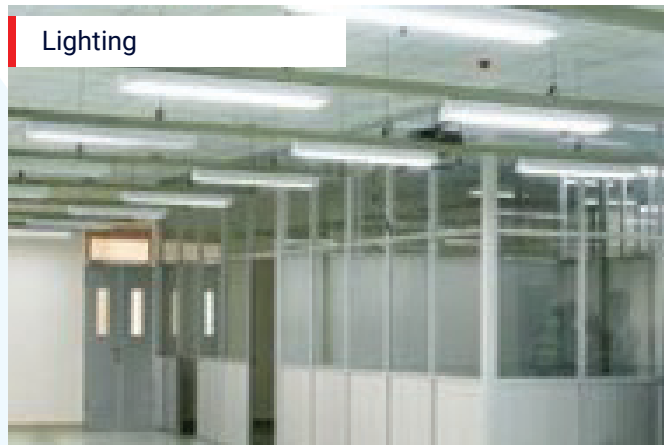
Air Compressor



Transformer



Lighting



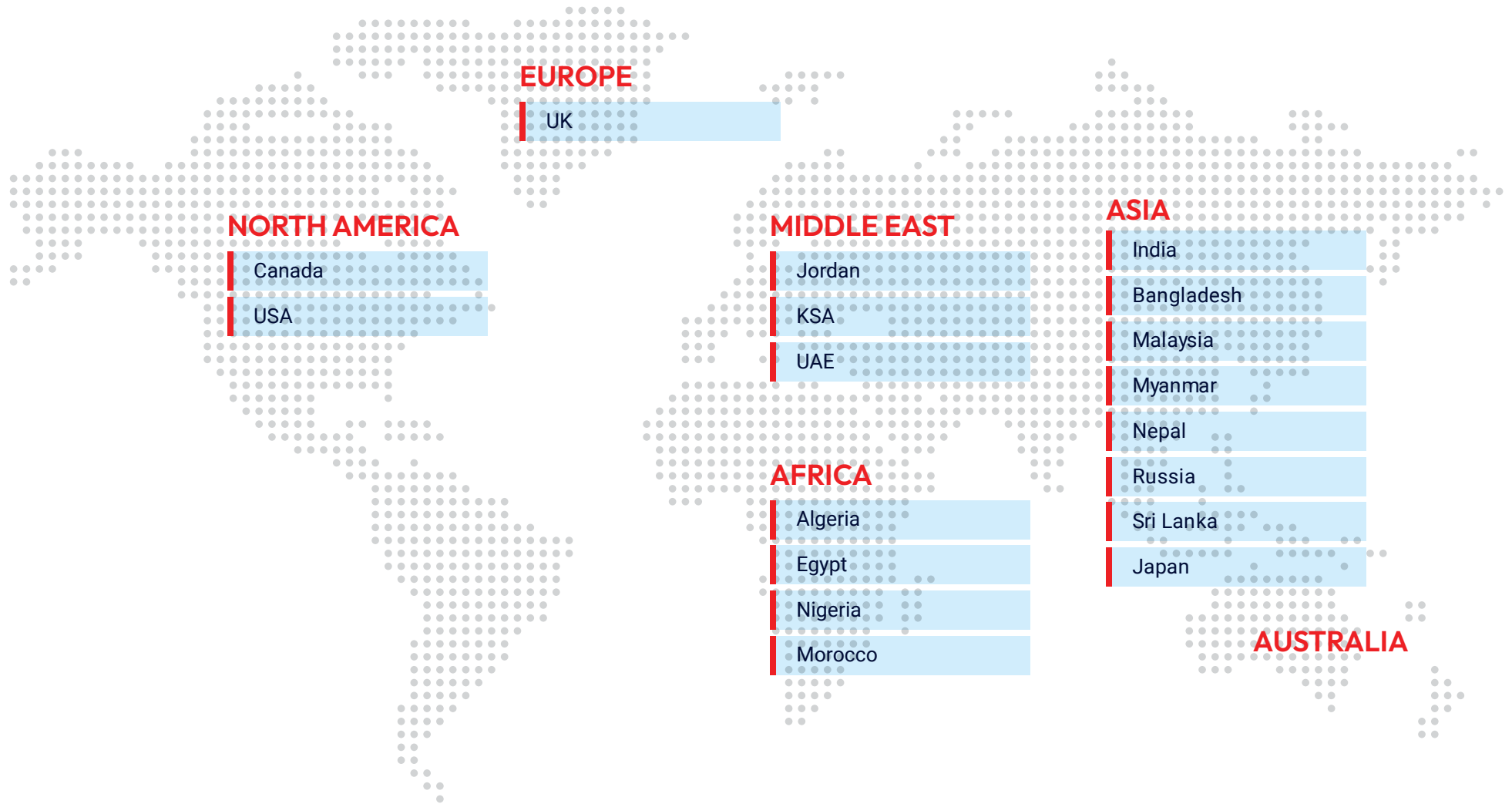
Cooling Tower



Taikisha R&D Satellite- “Taikisha Innovation Gate Shinjuku”



Global Presence





If you have any inquiries regarding corporate information, technologies, services, or solutions, please contact us at the following e-mail address.

sales@nicomactaikisha.com



Head Office:

Plot no 116 IDA Bollaram Jinnaram Mandal Near Miyapur,
Sangareddy Dt Telangana 502325 India



+91 7660978888



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