



***NihonSpindle***

Leading Eco-Technology

**NS Cooling Towers**

Company  
Profile







## A MESSAGE FROM OUR CEO: TOWARDS A GREENER FUTURE



**Yoshio Yunoh,**  
Chief Executive Officer,  
NS Cooling Towers Sdn Bhd

Today, conservation of the environment has become a global issue that has prompted numerous joint-efforts amongst many industrialised nations and worldwide associations. Similarly, in the construction industry, a trend toward eco-friendly and green buildings is rapidly growing.

Nihon Spindle shares the same vision and commitment toward a greener, less polluted earth. We started developing ecologically-sound products decades ago, to help establish a better world for all future generations. Our cooling towers have been developed to include special features such as minimised footprint for the corresponding capacity required, super low noise performance and uncompromised energy efficiencies.

**Our mission: To supply a premium class of products that can contribute towards a brighter, greener future.**



## A TRUSTED GLOBAL BRAND

NS Cooling Towers Sdn Bhd is a subsidiary of Nihon Spindle Manufacturing Co. Ltd., a leading Japanese company in the field of evaporative heat transfer technology. Our cooling towers feature high performance though uncompromised qualities, and are widely used all over the world for HVAC and industrial applications. Our products are well-known and trusted for their reliability, low noise performance, energy & space saving design and extensive support services.

NS Cooling Towers also has manufacturing plants around Asia regions such as Dalian in China. We cover the Malaysian and worldwide market except China and Japan. Our export sales have also grown to include countries in South East Asia, the Middle East, Australia, Pakistan, African continent and also Puerto Rico.

## A SUCCESSFUL HISTORY

- 1918** Nihon Spindle Manufacturing was founded in Osaka, Japan, as a limited partnership. It produced quality domestic spindles and rings for spinning machines.
- 1961** Nihon Spindle Manufacturing commenced production and distribution of cooling towers
- 1972** Nihon Spindle Manufacturing developed its first FRP Cold Water Basin
- 1980** Nihon Spindle Manufacturing developed Low Noise technology
- 1983** The first Nihon Spindle cooling towers were sold in Malaysia through Sumitomo Trading Company
- 1986** Distribution and manufacturing rights on selected models were granted to Linear Group Malaysia
- 1995** Dalian Spindle Cooling Towers Co. Ltd was established in Dalian, China
- 2000** Nihon Spindle Manufacturing developed Super Low Noise technology
- 2007** Distribution and manufacturing rights for Linear Group Malaysia expired
- 2007** NS Cooling Towers Sdn Bhd was established by Nihon Spindle Manufacturing as its third worldwide manufacturing plant in August, covering Malaysian and worldwide market except China and Japan
- 2008** NS Cooling Towers Sdn Bhd commenced full production and distribution of Nihon Spindle cooling towers in February.
- 2008** Two new series of Nihon Spindle cooling towers were launched - the WA & KX series
- 2008** KX series cooling towers obtained CTI certified performance status in Japan



## LEADING THE REGION



NS Cooling Towers' new state-of-the-art manufacturing plant in Penang is our company's third production factory worldwide. The establishment of our new factory is in line with our long-term commitment to our customers for future product support and also towards our aim of becoming regional leader in the cooling tower business.



Our Japanese team.

### Our Penang factory

- Built on a **6.7 acre land** with a combined production floor space of **60,000 sq ft**
- Combined office space of **5,000 sq ft**
- Dedicated CTI standard test facility for cooling towers of **15,000 sq ft**
- Manufacturing, Design, Quality Control and R&D led by qualified Japanese managers.



## CTI STANDARD TEST FACILITY AT NS COOLING TOWERS



1100TR cooling tower CTI testing.

In order to maintain the highest standards of quality, our products undergo strict test compliance in accordance to world-renowned Cooling Technology Institute (CTI) standards. CTI is a non-profitable, self-governing, technical association from USA dedicated to the improvement in technology, design, performance and maintenance of cooling towers. This organisation is also a leading authority in performance verification for cooling towers. A test facility was designed and built at our manufacturing plant in Penang, Malaysia, in accordance to the specifications by a qualified and certified CTI tester.



Diesel boilers to simulate heat load.

This unique CTI test facility has a combined floor space of 15,000 sq ft and is capable of up to 1,000 tonnes heat rejection testing. Testing is accomplished to great accuracy by 4 massive diesel-boilers and numerous sensors embedded around the vicinity of the test platform. The water flow rate of the water can be adjusted using variable speed pumps. In addition, our plant also includes a Static Fan Balancing and Dynamic Fan Testing facility.

CTI certification offers assurances in performance and reliability to the end user. Performance capacity is the contributing factor to a successful certification.

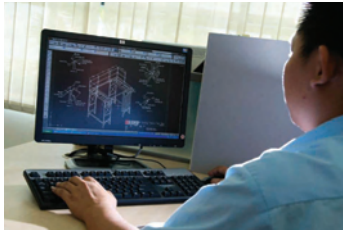
## JCI (Japan Cooling Tower Institute)



Japan Cooling Tower Institute is an association where the cooling tower manufacturers in Japan gathered to improve the cooling tower quality by doing research and also collect information and discussing on the technical and manufacturing side. It aims to give information about the cooling tower to the public and to notify that the cooling tower also has a role in the society and everybody will acknowledges it. The participating companies make use of each other features or strengths to improve the cooling tower performance and quality and target to achieve a comfortable environment.



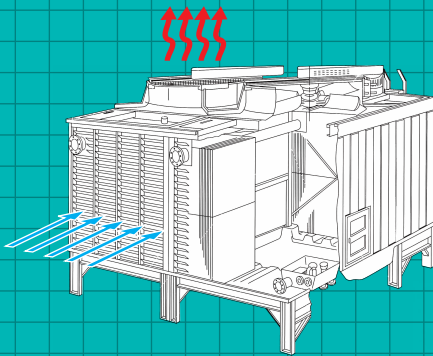
## ADVANTAGES IN PERFORMANCE AND ECO-FRIENDLY DESIGN



Innovation and Precision Engineering achieved through 2D and 3D CAD (Computer Aided Design) software

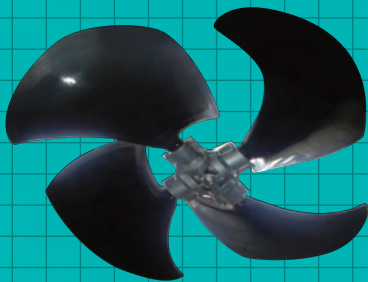
Our cooling towers are designed with high performance and an eco-friendly operation in mind. They have the advantage of lower noise levels and lower energy consumption. An innovative space saving design helps to minimise installation area requirements. Our design also incorporates a sloping basin and outlet sump that continuously filter out harmful deposits to prevent costly damages and improve performance. Our products are manufactured to JIS B8609 standards, certified under the Japan Cooling Tower Institute.

## ADVANTAGES OF CROSSFLOW DESIGN



Crossflow Design

- Better cooling efficiencies to maximize energy savings
- Softer impact on the environment
- Offers superior advantages in maintenance procedures
- Internal chambers can be accessed through an internal walkway running along the entire cooling tower.
- Easy access to internal components will simplify the maintenance process, thus reducing maintenance costs.



Super Low Noise Fan



Internal Chamber



Internal piping





## EXTENSIVE LONG-TERM SUPPORT



Trained staff conducting stringent quality control on every product.

NS Cooling Towers is an established company committed to long-term after-sales service and technical support for all our customers. Our established presence and reputable track record worldwide will assure local customers of superb quality and services for many years to come. We continuously seek to supersede the performance and quality of our existing products.



Continuous improvement in product innovation and quality.

## OUR PAST PROJECT PORTFOLIO



Sentosa  
Integrated Resort,  
Singapore



Al-Kazim Towers,  
Dubai



Torch Tower,  
Dubai



Islamabad Prime  
Minister Secretariat,  
Pakistan



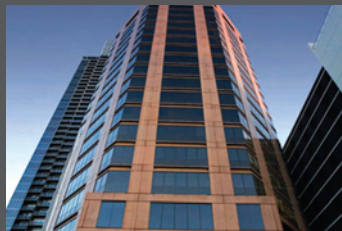
LUMS School of  
Science & Engineering,  
Pakistan



The Ambassador Hotel,  
Bangkok



Auckland Airport,  
New Zealand



Ansett Airlines,  
Australia



Brisbane City Council,  
Australia



Makati  
Shangri-La Hotel,  
Philippines



Hyatt Hotel,  
Puerto Rico



Shangri-La Hotel,  
Jakarta





Matrade Kuala Lumpur,  
Malaysia



Sri Perdana  
Official Residence  
of Prime Minister,  
Malaysia



Istana  
Melawati Putrajaya,  
Malaysia



Hospital Ampang,  
Malaysia



High Court  
Complex at Jalan Duta,  
Malaysia



Kuching Airport,  
Malaysia



Hilton & Meriden  
Hotel Kuala Lumpur,  
Malaysia



Sunway Lagoon  
Resort Hotel,  
Malaysia



Bangsar  
Shopping Centre,  
Malaysia



Kuala Lumpur  
Stock Exchange,  
Malaysia



Public Bank  
Headquarters,  
Malaysia



Intel Factory in Penang,  
Malaysia

[www.spindle.com.my](http://www.spindle.com.my)

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