

# NTK

NTK Material JSC

## NTK JOINT STOCK COMPANY

Your trusted partner in MEP solutions



## COMPANY PROFILE



## INTRODUCTION

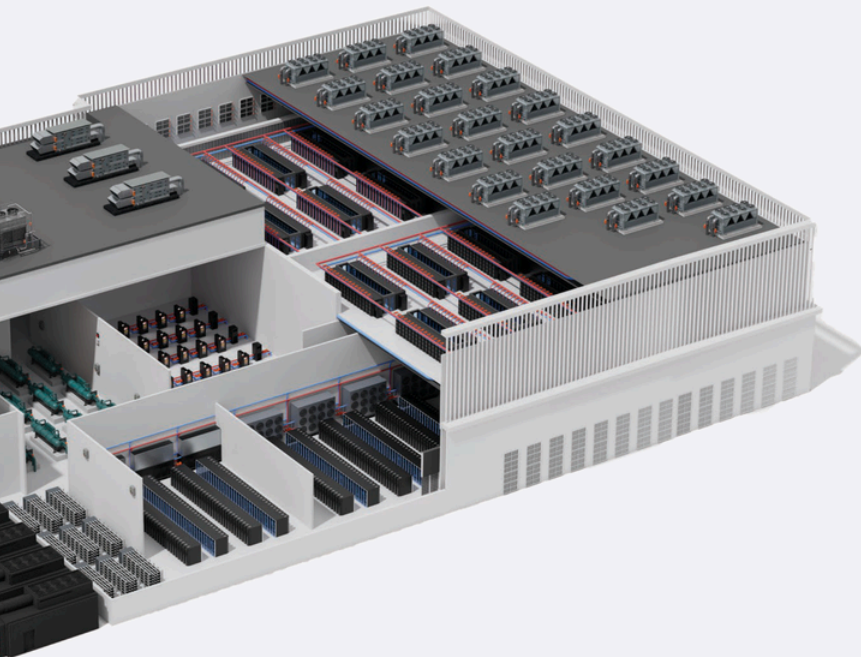
Established in 2014, we have positioned ourselves as a leading provider of HVAC, Plumbing, and Fire Protection solutions for Vietnam's most prestigious projects. As an authorized representative for premium local brands such as Starduct, B&A and global brand such as Belimo, Fivalco, Dasung, NFK. We deliver advanced technology and technical excellence to every project.

Our proven track record includes iconic infrastructure developments such as Tan Son Nhat International Airport – Terminal T3, designed to serve 20 million passengers annually, and Long Thanh International Airport, set to become Southeast Asia's largest airport with an expected capacity of 100 million passengers per year. In addition, NTK has contributed to the successful delivery of luxury five-star hotels, premium residential developments, modern data centers, and Grade-A commercial buildings across Vietnam. What differentiates NTK is not only the quality of our products, but also our commitment to delivering integrated engineering solutions through a highly experienced HVAC engineering team. We ensure every project achieves optimal performance, operational reliability, and safety standards.

At NTK Material JSC, we deliver more than products — we provide confidence and long-term value through advanced solutions, professional technical support, and dedicated customer service tailored to the evolving demands of modern construction projects.

## OUR MISSION

At NTK Material JSC, we are committed to elevating Vietnam's construction industry by delivering advanced HVAC, plumbing, and fire protection solutions from world-leading brands, ensuring superior quality, optimal energy efficiency, and long-term operational performance for every project.



**Belimo:** With more than 50 years of industry expertise, Belimo is a globally recognized leader in HVAC control technologies, offering advanced damper actuators, control valves, sensors, and energy management solutions that maximize operational efficiency, energy savings, and smart building performance.



**Fivalco:** Fivalco is a trusted manufacturer with over 40 years of expertise in flow control solutions, providing UL/FM-certified valves for fire protection systems and reliable HVAC solutions that ensure safety, efficiency, and long-term performance.



**Starduct:** With more than 20 years of manufacturing expertise, Starduct is a leading Vietnamese brand specializing in technical accessories and advanced VAV solutions for high-performance HVAC ventilation systems.



**B&A:** is Vietnam's leading AHU manufacturer and the only company in Vietnam producing AHU systems certified to AHRI standards, delivering optimized air handling solutions for industrial and commercial projects with competitive pricing and reliable delivery schedules.



**Dasung:** is a Korean brand providing advanced stainless steel piping and fitting solutions with modern connection technology, ensuring faster installation, easier maintenance, and superior system stability.



**NFK:** With more than 50 years of expertise, NFK provides high-quality flexible connection solutions designed to minimize vibration and noise transmission while ensuring exceptional durability and system reliability.

**ENERGY VALVE AND PICV PRODUCT RANGE**



**PICV**

Ensures precise flow control for optimal system performance.

Equipped with advanced communication protocols including BACnet, Modbus, and MP-Bus for enhanced compatibility with modern building automation systems and the Belimo ecosystem.

Easy for configuration and commissioning via smartphone connectivity through NFC technology.



**Energy valve**

Integrated PICV solution providing full functionality in one device, including precise flow control, low  $\Delta T$  optimization, energy monitoring, and 3-way valve capability for enhanced system flexibility.

**CONTROL VALVES PRODUCT RANGE**



**Butterfly valves**

Wide selection: including 2-ways, 3-ways and 6-ways valve configurations, adjustable operating times, protection ratings, auxiliary switch integration, fail-safe functionality and advanced communication protocols.



**Ball valves**

Seamlessly integrates with HVAC systems through advanced communication protocols such as BACnet, Modbus, and MP-Bus.

## SENSOR



Gas monitor



Duct sensor



Room sensor



Pressure sensor



Pipe sensor



BTU meter

Seamlessly integrates with HVAC systems through advanced communication protocols such as BACnet, Modbus, and MP-Bus.

Supports multiple communication protocols for seamless integration with building management and control systems.

## ACTUATOR/ VAV CONTROLLER PRODUCT RANGE



Actuator for damper

Provides versatile actuator solutions with customizable operating times, fail-safe functionality, and integrated auxiliary switches.



Actuator for fire damper

Fire damper actuators certified to leading international standards such as UL.



VAV controller

VAV controllers available with multiple control modes and communication protocols, featuring easy smartphone configuration via NFC technology.

## MANUAL VALVES AND ACCESSORIES FOR HVAC SYSTEM



Butterfly valve



Gate valve



Air relief valve



Pressure reducing valve



Globe valve



Check valve



Y strainer



Balancing valve

### Ductile/ cast iron



Y strainer



Ball valve



Gate valve



Check valve



Balancing valve

### Bronze / brass



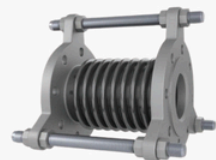
Thermometer



Pressure gauge



Flexible and expansion joints



### Accessories



Gate valve



Butterfly valve



Ball valve



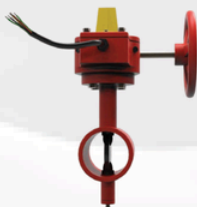
Y strainer



Check valve

**Stainless steel**

Engineered for applications requiring high corrosion resistance and strict hygiene standards, including specialized systems such as oil transfer and wastewater treatment systems.



Butterfly valve



Y strainer



Gate valve



Supervisor switch



Flow switch

**Fire fighting**

Provides valves and accessories for fire protection systems compliant with leading international standards such as UL and FM.



**intertek**

**Total Quality. Assured.**

Tested in accordance with ASHRAE 70-2006 and ADC 1062 standards at Intertek.

Uses Jotun coatings with standard RAL color systems, providing color durability of up to 5 years.

**AIR GRILLES**



Linear slot air grilles



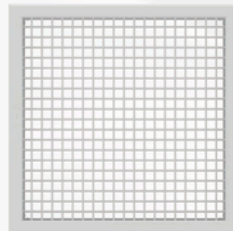
Linear bar air grilles



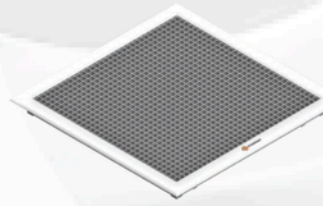
Louver



Single deflection grille



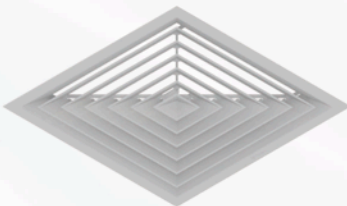
Double deflection grille



Egg crate grille



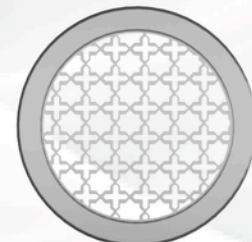
Jet nozzle diffuser



4-Way square ceiling diffuser



Round ceiling diffuser

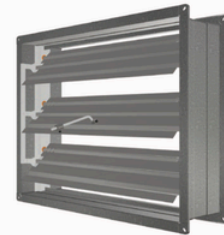


Pattern diffuser

## DAMPER

### Wide Product Range

Provides a complete range of valves for air conditioning and ventilation systems, including balancing valves, check valves, and pressure relief valves.



### Material Options

Manufactured from Z18 galvanized steel compliant with ASTM A653/A653M standards, with optional stainless steel or ZAM material available upon request.



### Powered by Belimo actuators

Equipped with Belimo damper actuators, backed by over 50 years of global expertise in HVAC control solutions.



## FIRE DAMPER



### Fusible fire damper EI15-EI120

Features a patented damper design that enables external inspection of open/close status and thermal fuse replacement without the need for an access panel.



### Single-blade Motorised fire damper EI15-EI180

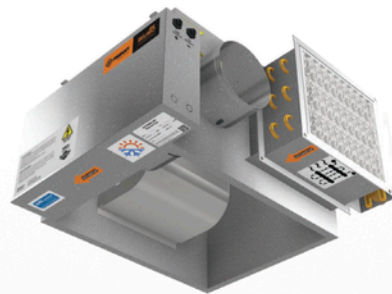
Equipped with Belimo actuators featuring fast operation (<20s), fail-safe functionality, and two auxiliary switches for enhanced safety and control.



### Multi-blade Motorised fire damper EI15-EI180

Ideal solution for applications with limited installation space. Available with optional ON/OFF or modulating actuator control.

**VAV BOX**

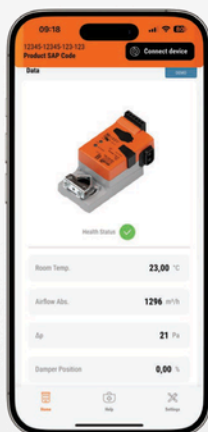


**WIDE PRODUCT RANGE**

**VAV Only Cooling**

**Heating VAV with electric heater**

**Heating VAV with heating coil**



**Easy Setup & Configuration**

NFC Smartphone Configuration



# QUALITY CERTIFICATIONS



## Certificate of Product Ratings

**AHRI Reference Number:** 21335067    **Date:** 04-24-2024    **Model Status:** Active

**Old AHRI Reference Number:**  
**Brand Name:** Starduct  
**Model Number:** SVAV-S-14  
**Product Type:** Single Duct Terminal Unit (Supply)  
**Country Of Origin:** Vietnam

Rated as follows in accordance with the latest edition of ANSI/AHRI 880 (L-P) with Addendum 1: Performance Rating of Air Terminals and ductwork rating accuracy by AHRI-sponsored, independent, third party testing.  
 Rated Duct Width x Height, in.: 19.0x18.0  
 Primary Air Flow Rate, CFM: 2100  
 Minimum Operating Pressure, in H2O: 0.04

<b>Radiated Sound Power Level @ 1.5 in H2O Differential Static Pressure and 100% Rated Airflow, db</b> 125 Hz: 58 250 Hz: 67 500 Hz: 46 1000 Hz: 46 2000 Hz: 31 4000 Hz: 27	<b>Discharge Sound Power Level @ 1.5 in H2O Differential Static Pressure and 100% Rated Airflow, db</b> 125 Hz: 72 250 Hz: 72 500 Hz: 75 1000 Hz: 67 2000 Hz: 67 4000 Hz: 63
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\*Product Model Status also shows that an AHRI Certification Program Participant is currently producing AND testing or offering for sale, OR new models that are being introduced but are not being produced. Production Stoppage Model Status also shows that an AHRI Certification Program Participant is no longer producing. STOPPED PRODUCTION Model Status indicates an involuntary re-rater. The new published rating is shown along with the previous (i.e. WAS) rating.

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REPORT

3933 US ROUTE 11    CORTLAND, NEW YORK 13045

Order No. 106082030      Date: January 28, 2025

REPORT NO. 106082030CRT-001

VAV-25068-1-A RANDOM TEST OF A  
 STAR ASIA TECHNOLOGICAL INVESTMENT JOINT STOCK COMPANY  
 SINGLE DUCT TERMINAL UNIT (SUPPLY)  
 MODEL/SIZE SVAV-S-14  
 AHRI REFERENCE # 21335067  
 RENDERED TO:

AIR-CONDITIONING, HEATING & REFRIGERATION INSTITUTE  
 2311 WILSON BLVD, SUITE 400  
 ARLINGTON, VA 22203

Summary of Test Result

Section No. *	Title of Test	Results
7	Primary Airflow Rate, SCFM /	
7	Minimum Operating Pressure	Passed
7	Radiated Sound Power Level, dB	Passed
7	Discharge Sound Power Level, dB	Passed

Date of Selection: November 8, 2024  
 \*AHRI Standard 880-2017

Date of Test:      Discharge Sound - January 15, 2025  
 Radiated Sound - January 23, 2025

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Certified to world-leading testing standards, including AHRI 880 and Intertek, ensuring superior product quality and reliable performance.

## Comprehensive Solutions Enduring Trust



### KEY FEATURES



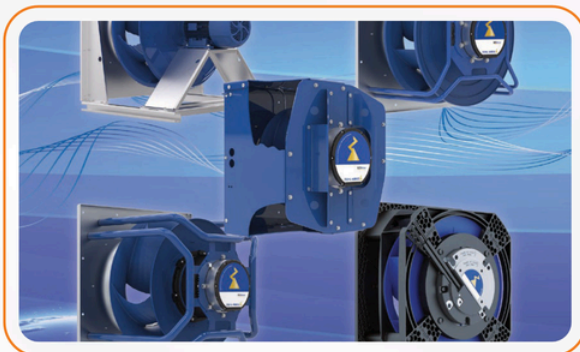
#### Stable and Safe Operation

Certified for operational safety with CE marking with EN ISO 12100 and EN 60204-1 standards.



#### Product Quality

Certified to world-leading standards such as AHRI 1350, achieving the highest performance ratings.



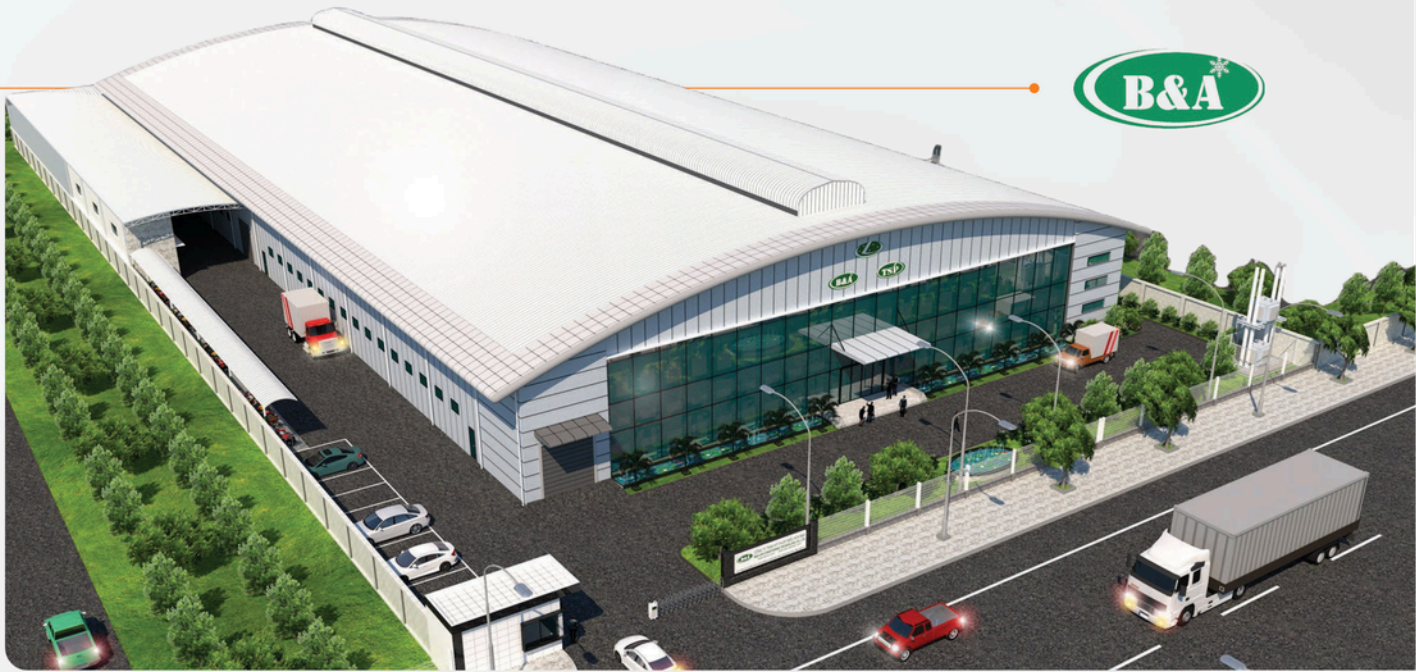
#### Optimized performance

Certified for operational safety with CE marking with EN ISO 12100 and EN 60204-1 standards.



#### B&A Factory

B&A's manufacturing facility is ISO 9001:2015 certified.



# Certifications & Compliance





## Certificate of Product Ratings

AHRI Certified Reference Number : 217219855    Date : 05-30-2025    Model Status : Active

Brand Name : B&A

Model Designation : S-2221

Rated as follows in accordance with the latest edition of ANSI/AHRI Standard 1350 (I-P) - Mechanical Performance Rating of Central Station Air-handling Unit Casings and subject to rating accuracy by AHRI-sponsored, independent, third party testing:

Casing Deflection Rating Class (Positive) : CD1

Casing Deflection Rating Class (Negative) : CD1

Casing Air Leakage Class (Positive) : CL1

Casing Air Leakage Class (Negative) : CL1

Thermal Transmittance Class with Leakage : CT1

Thermal Transmittance Class without Leakage : CT1

Thermal Bridging Class : CB1

Equipment Line Name : AHU-2221

Wall Construction : Double wall with frame thickness 50mm, two sides of Bluescope Sumo AM80 0.8mm sheet metal

Insulation Type : PIR

Insulation Thickness : 50mm

Assembly Method : All panel joint to aluminum frame with tapping screws

Range of Exterior Air Tunnel Cross-Sectional Areas ft<sup>2</sup> : 36.9-36.9

Casing Design Pressure (Positive) : 10

Casing Design Pressure (Negative) : 10



\*“Active” Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. “Production Stopped” Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.  
 Ratings that are re-recognized by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

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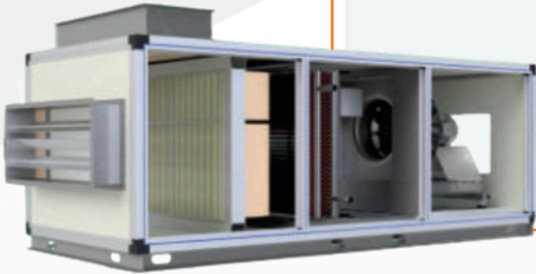
**CERTIFICATE VERIFICATION**  
 The information for the model cited on this certificate can be verified at [www.ahridirectory.org](http://www.ahridirectory.org) click on [Verify Certificate](#) link and enter the AHRI Certified Reference Number and the date on which the certificate was issued, which is listed above, and the Certificate No., which is listed at bottom right.

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**CERTIFICATE NO.:** 13393129984666421

Certified to world-leading testing standards, including AHRI 1350, ensuring top-tier product quality, performance, and compliance with international benchmarks.

**PRODUCT RANGE**



**STD**

AHU Standard

**Features:** Controls air temperature while supplying fresh air for improved indoor air quality.

**Applications:** Designed for basic air conditioning and ventilation requirements across commercial and industrial applications.

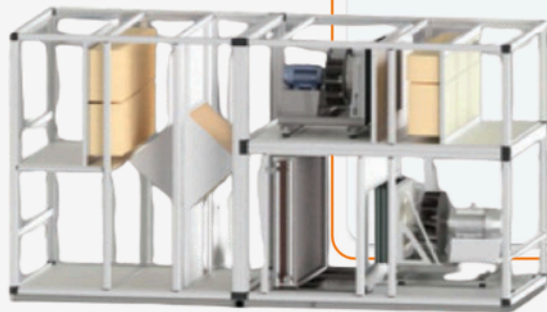


**EHT**

AHU with Electric Heater

**Features:** Provides precise humidity control from 45% to 70% RH

**Applications:** Corrosion-sensitive processes, mold prevention, and controlled drying operations.



**HEX**

AHU with Heat Exchanger

**Features:** Energy efficiency up to 90% with zero cross-contamination.

**Applications:** Ideal for areas requiring 100% fresh air, such as hospital operating rooms.



**DRC**

AHU - DX Run Around Coil

**Features:** Provides precise humidity control from 45% to 70% RH

**Applications:** Corrosion-sensitive processes, mold prevention, and controlled drying operations.



### WHC

AHU with Water Heating Coil

**Features:** Provides precise humidity control from 45% to 70% RH

**Applications:** Corrosion-sensitive processes, mold prevention, and controlled drying operations.



### DHU

AHU - Desiccant Wheel

**Features:** precise humidity control ranging from 5% to 45% RH.

**Applications:** low-temperature, low-humidity operating conditions requiring strict humidity management, such as sensitive manufacturing or storage environments.



### DDHU

Dryroom AHU - Desiccant Wheel

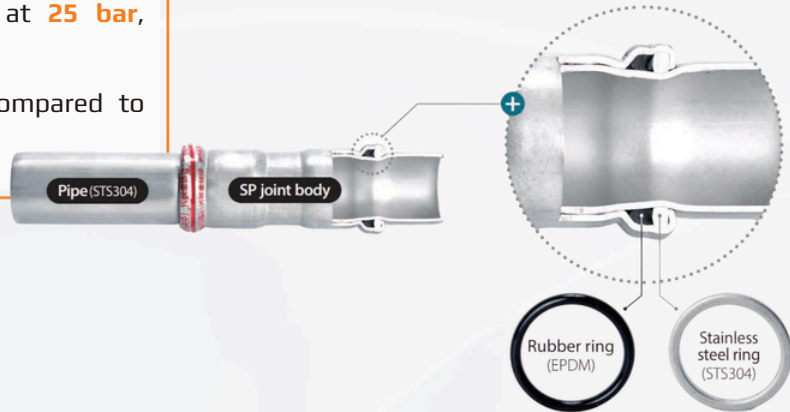
**Features:** ultra-low humidity control, maintaining 0% to 5% RH.

**Applications:** dry room applications, such as electronics and battery manufacturing, where precise humidity control is critical.



Pipes with **360°** rotational capability and deflection tolerance up to **22.28°** at **25 bar**, enabled by dual O-ring technology.

Reduces labor costs by 30-50% compared to traditional installation methods.



**PRODUCT**



**Reducer**



**Socket**



**Tee**



**45° Elbow**



**90° Elbow**



**SP-Flange**



**Cap**



**Adapter Socket**



**Adapter Tee**



**BASIC PRODUCT LINE**



2 male-threaded ends



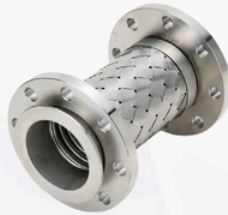
1 male-threaded end  
1 female-threaded end



2 female-threaded ends



Fixed flange



Adjustable flange



Expansion joint

**KEY FEATURES**



Ensures fast delivery times thanks to a local manufacturing facility in Vietnam, integrated with advanced and strict management systems.



Supports rapid production of small batch orders while maintaining required quality standards.



Japanese-Quality Manufacturing: Over 50 Years of Expertise

# VALUE - ADDED SERVICE

More than just products – delivering services that enhance performance and customer satisfaction.

## NTK

NTK Material JSC



### TECHNICAL SUPPORT

Ensuring optimal product integration and system performance.



### CONSULTING SERVICE

Custom consulting services for project-specific needs.

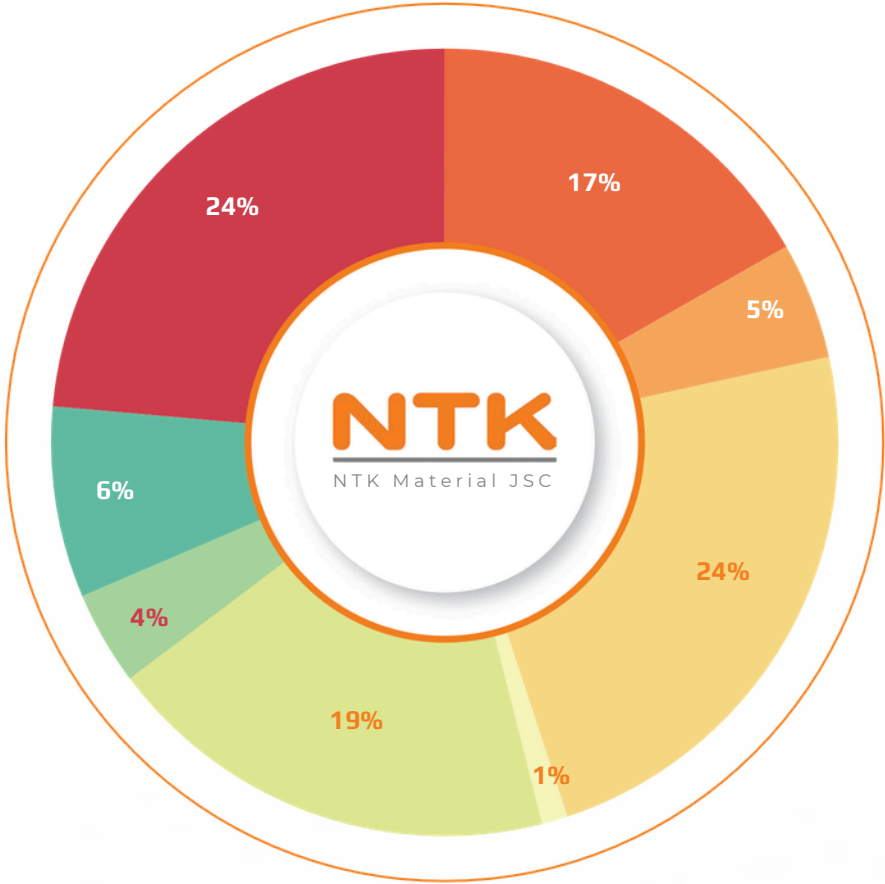


### AFTER SALES

Maintenance and assistance to optimize performance and reliability.

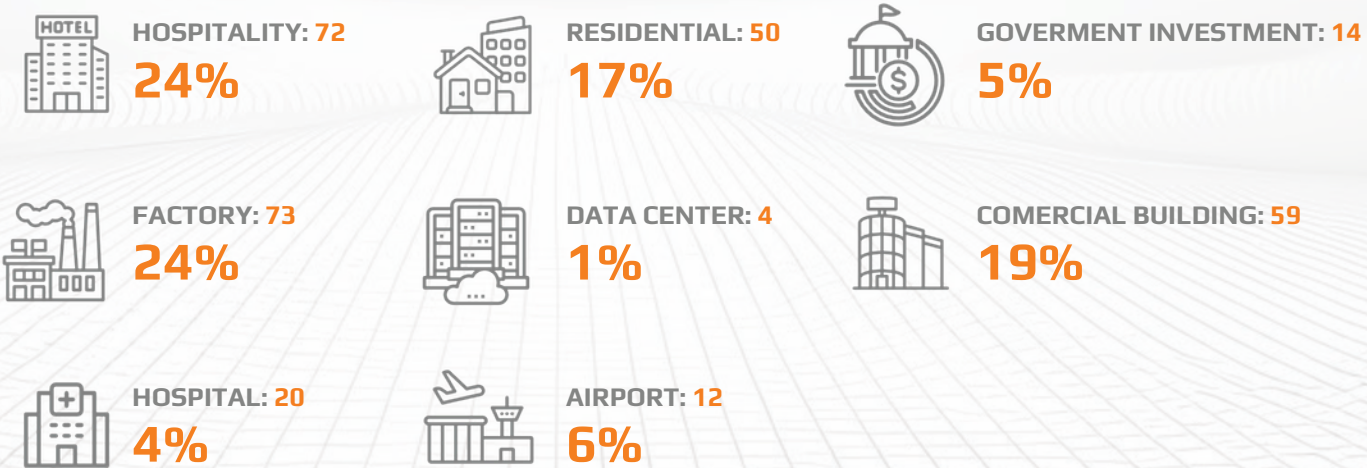


# PROJECT OVERVIEW



**Note**

- HOSPITALITY
- RESIDENTIAL
- GOVERMENT INVESTMENT
- FACTORY
- DATA CENTER
- COMERCIAL BUILDING
- HOSPITAL
- AIRPORT / TRANSPORTATION INFRASTRUCTURE



# NTK



## KEY PROJECT

Airports / Transportation Infrastructure



### Long Thanh International Airport

**investor:** ACV

**Brand:** Starduct, Belimo, Fivalco

### Tan Son Nhat Airport - T3

**Investor:** ACV

**Brand:** Starduct, Belimo

### Ben Thanh Metro Station

**Investor:** Ministry of Transport

**Brand:** Starduct, Belimo



## KEY PROJECT

### Commercial Buildings



#### LANCASTER LEGACY

**Investor** Trung Thuy Group  
**Brand:** Starduct, Belimo



#### RIVIERA POINT 1C

**Investor:** Keppel Land  
**Brand:** Starduct, Belimo



#### 22 HANG BAI

**Investor:** Masterise  
**Brand:** Starduct, Belimo

# KEY PROJECT

Government Investment



## Ministry of Public Security Headquarters

**Investor:** Ministry of Public Security

**Brand:** Starduct, Belimo



## Ho Guom Opera House

**Investor:** Sun Group

**Brands:** Starduct, Belimo



## Vietnam Military History Museum

**Investor:** Ministry of National Defence

**Brand:** Starduct, Belimo

# KEY PROJECT

## Hospitality



### **Marriot Hoi An**

**Investor:** AKYN

**Brand:** Starduct, Belimo



### **The Luxury Collection**

**Investor:** IFF Holding

**Brand:** Starduct, Belimo, Fivalco, Dasung



### **Casino Ba Na Hill**

**Investor:** Sun Group

**Brand:** Starduct, Belimo

# KEY PROJECT

## Industrial Factories



### COOLER MASTER

**Investor:** Cooler Master  
**Brand:** Starduct, Belimo



### PANDORA

**Investor:** Pandora  
**Brand:** Starduct, Belimo



### FOXCONN BAC GIANG

**Investor:** Foxconn  
**Brand:** Belimo, Fivalco

# KEY PROJECT

Data center



## National Data Center

**Investor:** Ministry of Public Security

**Brand:** Starduct, Belimo



## Viettel Hoa Lac

**Investor:** Viettel

**Brand:** Starduct, Belimo



## FPT Data center

**Investor:** FPT

**Brand:** Starduct, Belimo

# KEY PROJECT

## Hospitals



### 108 Hospital

**Investor:** Ministry of National Defence

**Brand:** Starduct, Belimo



### CARMEL Hospital

**Investor:** Carmel

**Brand:** Starduct, Belimo



### Phu Quoc Sun Hospital

**Investor:** Sun Group

**Brand:** Starduct, Belimo, Fivalco

# KEY PROJECT

## Commercial Buildings



### **LOTUS TOWER**

**Investor:** SSG

**Brand:** Starduct, Belimo



### **GRAND TERRA Ha Noi**

**Investor:** Thanh Hoa Construction JSC

**Brand:** Starduct, Belimo



### **Hai Son Office**

**Investor:** Hai Son Froup

**Brand:** Starduct, Belimo

# Customer

## INVESTOR

**ACV** AIRPORTS CORPORATION OF VIETNAM

**SUN GROUP**

**TTG** HOLDING

**Keppel**

**MASTERISE HOMES**

**VINGROUP**

**PHATDAT CORPORATION**  
Real Estate Development

**PHENIKAA**

**Fusion Group**

**COOLER MASTER**

**AKYN**  
HOSPITALITY GROUP

**SONKIM LAND**

**TTI**

**IFF**  
HOLDINGS

**FLAMINGO HOLDINGS**

**PANDORA**

**GAMUDA LAND**

**T&T GROUP**

**CEO**

**FOXCONN**

**ecopark**

**ALPHANAM Group**

**HCMC METRO**

**viettel**

**FPT**

**TANADAITHANH**  
Phần vinh cuộc sống Việt

**HDBank**  
Cam kết lợi ích cao nhất

**CHARM GROUP**

**SSG GROUP**

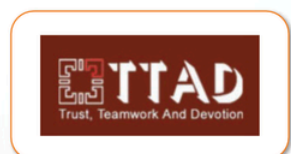
**Kusto**  
HOMC

**VinaCapital**

**TECHCOMBANK**

# CUSTOMER

## DESIGN CONSULTANT



# CUSTOMER CONTRACTOR





## Appreciation

NTK Material JSC sincerely extends our heartfelt gratitude to our valued clients and partners for their continuous trust, support, and collaboration throughout our journey of growth.

Your confidence and encouragement are the driving force behind NTK's relentless efforts to innovate, improve, and expand our capabilities, ensuring we deliver the highest-quality products and solutions in HVAC, plumbing, and fire protection systems.

We believe that every completed project stands as a testament to the sustainable partnerships and trust our clients and partners have placed in NTK. Moving forward, we remain committed to pioneering excellence, delivering outstanding value, and contributing to the sustainable development of Vietnam's construction industry.

Once again, we sincerely thank our clients and partners for accompanying NTK Material JSC. We wish you good health, continued success, and prosperity!





# NTK

## **MATERIAL JOINT STOCK COMPANY**

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