

# SEOUL Industrial Technical Corp.





# Contents

1. About SEOUL Industrial Technical Corp. ....	1
2. History .....	3
3. Business Divisions .....	4
4. Engineering Performance .....	5
5. Equipment Department	
- ASU(Air Separate Units) .....	6
- PSA(Pressure Swing Adsorption).....	7
- Gas Purifier.....	8
- Pressure Vessel.....	9
- Gas Filter & Header.....	10
- Pilot Plant and Etc .....	11
6. Construction Department	
- Plant Construction .....	12
- Machinery Installation.....	13
- Piping Construction .....	14
- UHP Piping Construction .....	15
7. Epilogue .....	16

# 1. About SEOUL Industrial Technical Corp.

## Introduction

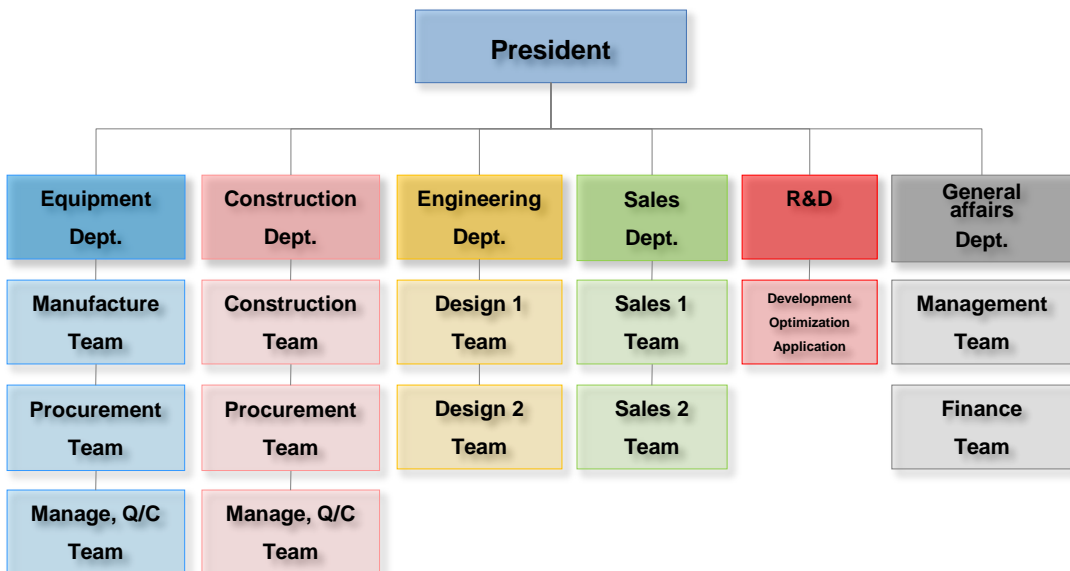
SEOUL Industrial Technical Corp. provides total engineering works from feasibility study to engineering, procurement, construction, supervision and manufacturing for UHP gas equipment, gas distribution equipment and other application facilities according to customer's requirements.

SEOUL Industrial Technical Corp. designs and manufactures various equipment related to the industrial gases and chemical plants such as pressure vessels, steel structures and gas purifiers. SEOUL Industrial Technical Corp. actually manufactured and installed pressure vessels for adsorption, cold box for gas distribution equipment, purifiers for argon, oxygen, nitrogen, hydrogen, and SF<sub>6</sub> gas and piping & steel structures in gas plants.

Especially, SEOUL Industrial Technical Corp. has successfully installed facilities and equipment for gas supply in the semiconductor and FPD utility line of well-known companies. SEOUL Industrial Technical Corp. has accumulated technology and experience that is able to give an optimal service and satisfaction to customer.

SEOUL Industrial Technical Corp. has been trying to fulfill the leading roles in the production of high-tech gas facilities which are the basic industrial equipment.

## Organization



## Factory scale

The clean room is 10,000 class grade, which space is 24 x 7 x 3 m (W x D x H), is used to manufacture gas purifiers and special pressure vessels for UHP(ultra high purity) equipment.

Large scale equipments are made in the factory-A which has the size of 36 x 18.5 x 13.5 m (W x D x H). Factories are equipped with various devices such as 5, 10 ton crane, welding system and tools.

**Office** : 9th Floor, 165, Gwangdeok 1-ro, Danwon-gu,  
Ansan-si, Gyeonggi-do, Korea  
TEL : +82-31-495-7776, FAX : +82-31-495-7706

**Factory** : 884, Godae-ro, Godae-myeon, Dangjin-si,  
Chungcheongnam-do, Korea  
TEL : +82-41-355-7760, FAX : +82-41-355-7763



## 2. History

SEOUL Industrial Technical Corp. provides entire engineering work from feasibility study to design, procurement, construction and supervision concerning ASU, manufacturing facilities for ultra high purity gases for semiconductors, gas distribution equipment and other application facilities according to customer's requirements.

SEOUL Industrial Technical Corp. produces and provides facilities and equipment related to the industrial gases such as chemical plants, pressure vessels, steel structures, plant engineering and gas purifiers.

SEOUL Industrial Technical Corp. has successfully installed facilities and equipment in the semiconductor line, FPD utility line and gas suppliers currently.

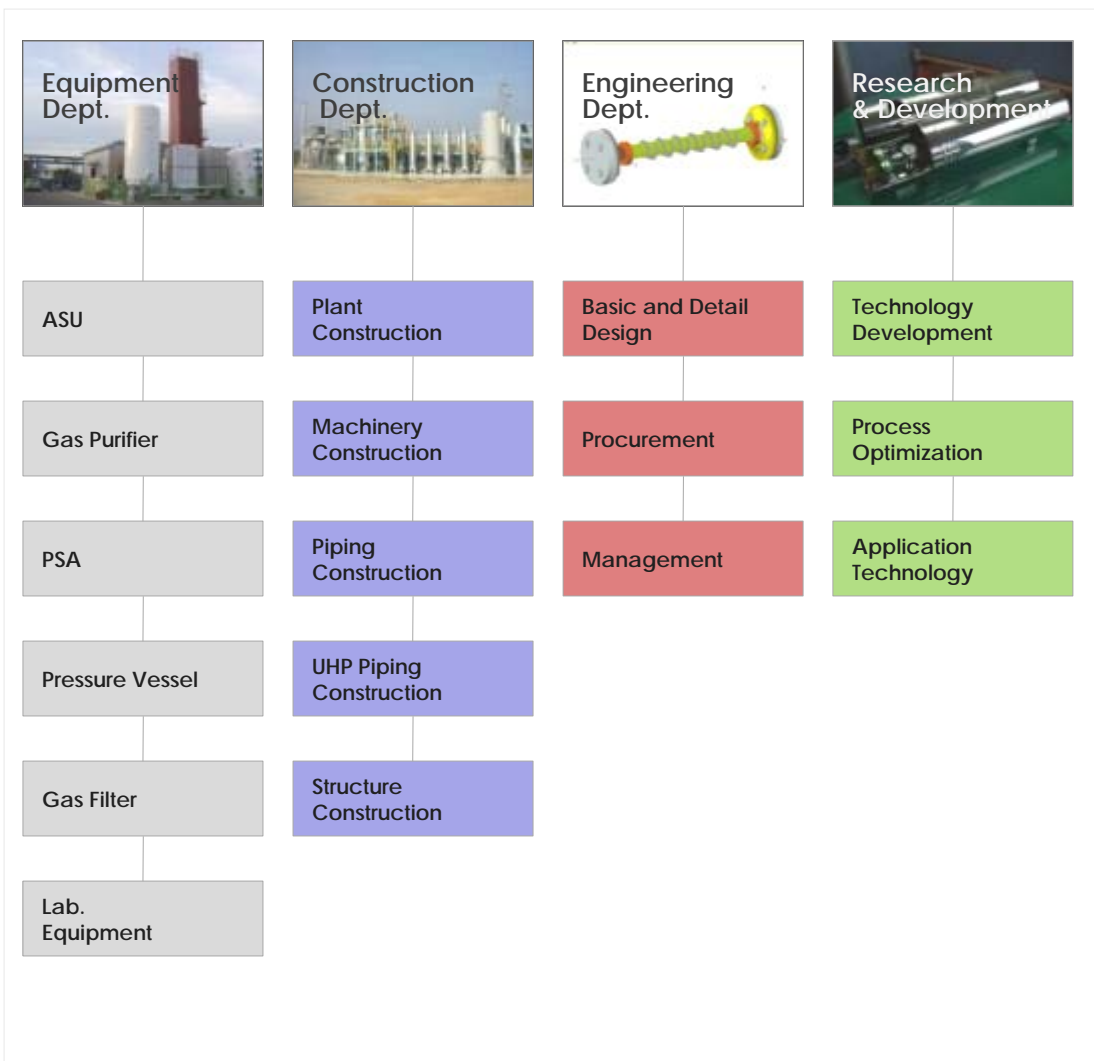
### History of SEOUL Industrial Corp.

<p>2015 ~ 2010</p>	<ul style="list-style-type: none"> <li>- O2 Separate Process System</li> <li>- BCI3 Pressure vessel (Matheson)</li> <li>- Ground Freezing System (Doosan)</li> <li>- O2 VPSA Plant manufacture &amp; installation(SAMSUNG SDI)</li> <li>- Ar, O2 Purifiers (LG Display 2012)</li> <li>- TCS Pressure vessel(Woongjin)</li> <li>- H2 Production Plant (Sumitomo)</li> <li>- HYSCO &amp; KCC Cold Box</li> <li>- N2 Purifier 3set</li> <li>- Ar, O2 Purifiers (LG Display 2011)</li> <li>- Turkmenistan Cold Box</li> <li>- HBr / BCI3 Pressure Vessels</li> <li>- Ethylene Distillation Process System</li> <li>- H2 Purifiers (LG Display 2010)</li> <li>- CO2 Separate Process System</li> </ul>
<p>2009 ~ 2002</p>	<ul style="list-style-type: none"> <li>- ASU &amp; Cold Box Manufacture</li> <li>- N2 Purifier Manufacture (Export to SAUDI)</li> <li>- Ethylene Distiller (Low Temp. Type : KIER)</li> <li>- Underground Piping Install (Praxair)</li> <li>- O2 PSA Manufacture and Piping Install</li> <li>- Modified &amp; Manufacture M/S Adsorption Tower</li> <li>- N2 PSA Manufacture and Piping Install</li> <li>- He purifier</li> <li>- Cold Box Manufacture</li> <li>- ASU Cold Box</li> <li>- Ar, N<sub>2</sub>, O<sub>2</sub> Cabinet Type Purifier</li> <li>- Pressure Vessels (Adsorption Tower, Drain Pot, etc.)</li> <li>- Manufacture and Installation of Filter Unit</li> <li>- Mega ASUs Cold Box, Exchanger Box, Condenser Box (Air Liquide)</li> <li>- Hydrogen purifier(Cryogenic Distillation)</li> <li>- SF<sub>6</sub> Purifier</li> <li>- Installation of ASU Equipment and Cold Box</li> <li>- Nitrogen Purifier</li> <li>- Established SEOUL Industrial Technical Corp.</li> </ul>

### 3. Business Divisions

SEOUL Industrial Technical Corp. produces and provides plant design and engineering service related to the industrial gases and has manufactured chemical & gas plants, gas purifiers, pressure vessels, steel structures. Especially, SEOUL Industrial Technical Corp. has successfully installed them in the semiconductor line, FPD utility line and gas supply unit.

SEOUL Industrial Technical Corp's business section



# 4. Engineering Performance

## Applicable Code, Standard and Specifications

The following Codes and Standards are applied to Seoul industrial technical corp. products & Construction.

### 1. ASME Code (American Society of Mechanical Engineers)

The following Codes and Standards and customers specifications shall apply to this procedure as specified.

- ASME Code : ASME Boiler & Pressure Vessel Code
- Selection II : Material specification
- Selection V : Non-destructive examination
- Selection VIII Div.1 : Pressure vessels
- Selection IX : Welding qualification

### 2. KGS Code (Korea gas safety corporation Code and Standards)

- Pressure vessel, piping

### 3. JIS Code

- Pressure vessel, structure, piping

### 4. TEMA Code

- Heat Exchanger

### 5. KOSHA Code (Korea occupational safety & health agency)

- Pressure vessel



## 5. Equipment Department ASU



### Mega ASUs

Mega ASUs were manufactured in Ulsan DIG.

#### Scope

- Cold Box Manufacture
- Exchanger Box Manufacture
- Condenser Box Manufacture
- Inner piping construction
- Columns, Heat exchanger valves, and Etc. installation



## 5. Equipment Department

PSA

### POTLATCH PSA

Methane gas PSA and Hydrogen gas PSA were manufactured..

#### Scope

- Manufacture
- Piping & Structure Construction



### DONGWOOFINECHEM

#### PSA

PSA was manufactured.

#### Scope

- Design & Manufacture
- Piping construction



### KIER PVSA

PVSA was manufactured

#### Scope

- Design & Manufacture
- Piping construction



### AIRFORCE PSA

PSA was manufactured.

#### Scope

- Design & Manufacture
- Piping construction



# 5. Equipment Department

## Gas Purifier

### Saudi Kayan N2 Purifier

Saudi Kayan N2 Purifier was manufactured.

#### Scope

- a. Design
- b. Manufacture
- c. Installation

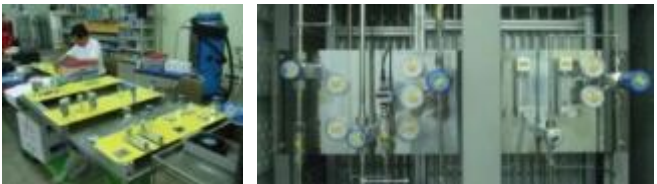


### P4 He Purifiers

P4 He Purifiers were manufactured.

#### Scope

- a. Design
- b. Manufacture
- c. Installation



### High pressure Ar, N2 Purifier

High pressure Ar, N2 Purifiers were manufactured.

#### Scope

- a. Design
- b. Manufacture
- c. Installation



### High pressure O2 Purifier

High pressure O2 Purifier was manufactured.

#### Scope

- a. Design
- b. Manufacture
- c. Installation





## 5. Equipment Department Pressure Vessel

### SF6 Drum, Column Vessels( SUS316L)

SF6 Drum, Column Vessels were manufactured.

#### Scope

a. Design b. Manufacture c. Installation



### Cryogenic Vessels (SUS316L, SUS304)

Cryogenic vessels were manufactured.

#### Scope

a. Design b. Manufacture c. Installation



### N2 Purifier Vessels(SUS316L)

N2 Purifier drums were manufactured.

#### Scope

a. Design b. Manufacture c. Installation



### MS Towers, Drums(SA516 G70, SUS304)

Towers, Drums, and Etc. were manufactured.

#### Scope

a. Design  
b. Manufacture  
c. Installation



## 5. Equipment Department

### Gas Filter & Header

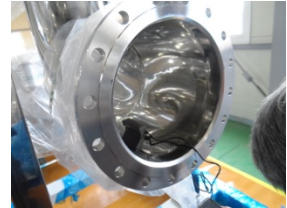


#### High Purity Gas Filter Unit

High Purity Gas Filter Unit were manufactured.

Scope

a. Design b. Manufacture c. Installation

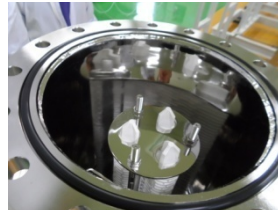


#### High Purity Gas Filter Unit

High Purity Gas Filter Unit were manufactured.

Scope

a. Design b. Manufacture c. Installation

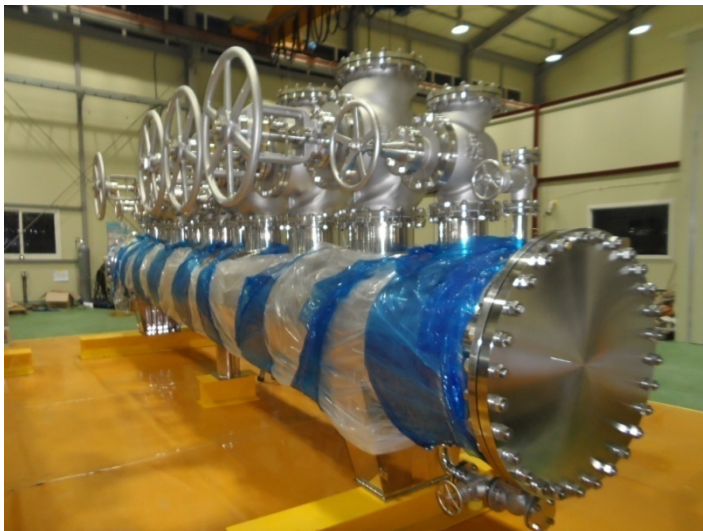


#### Header

Header was manufactured.

Scope

a. Design b. Manufacture



## 5. Equipment Department Pilot Plant and Etc.

### ITM Project

ITM Lab. Plant was manufactured.

Scope

a. Design b. Manufacture c. Installation



### KIER Ethylene Project

KIER Ethylene Lab. Plant was manufactured.



### DSPN 80 Project

DSPN 80 Lab. Plant was manufactured..

Scope

a. Design b. Manufacture c. Installation



### PSA Project

PSA Lab. Plant was manufactured.

Scope

a. Design  
b. Manufacture  
c. Installation





## 6. Construction Department

### Plant Construction

#### CO2 Project

CO2 Project were manufactured and constructed.



#### Scope

- Design
- Piping construction
- Machinery Installation
- Control installation
- Structure Construction



## 6. Construction Department Machinery Installation

### Machinery Installation

Machineries of H<sub>2</sub> Gas Production Plant were installed.

#### Scope

- a. Installation
- b. Piping construction
- c. Foundation work



### ASU Installation

Air Separate Units were installed.

#### Scope

- a. Cold Box
- b. Exchanger Box
- c. Condenser Box
- d. Etc. Units



### ASU Installation

Air Separate Units were installed.

#### Scope

- a. Cold Box
- b. Exchanger Box
- c. Condenser Box
- d. Etc. Units





## 6. Construction Department

### Piping Construction



#### H2 Plant Piping Construction

H2 Plant Piping Construction was constructed.

##### Scope

- a. Piping construction
- b. Rack construction
- c. Insulation Construction



#### Underground Piping Construction

We completed underground construction .



##### Scope

- a. Civil engineering work
- b. Piping construction

#### ASU Piping Construction

ASU Piping Construction was constructed.

##### Scope

- a. ASU Piping construction
- b. Piping construction Inner Cold box



#### TNP Piping Construction

TNP Plant Piping Construction was constructed.

##### Scope

- a. Piping construction
- b. Valves and parts installation



## 6. Construction Department

### UHP Piping Construction



#### UHP Piping Construction

UHP Piping Construction for O<sub>2</sub> gas was constructed.

#### Scope

- Cabinet construction
- Tubing & Parts construction



#### UHP Piping Construction

UHP Piping Construction for Ar gas was constructed.

#### Scope

- Cabinet construction
- Tubing & Parts construction

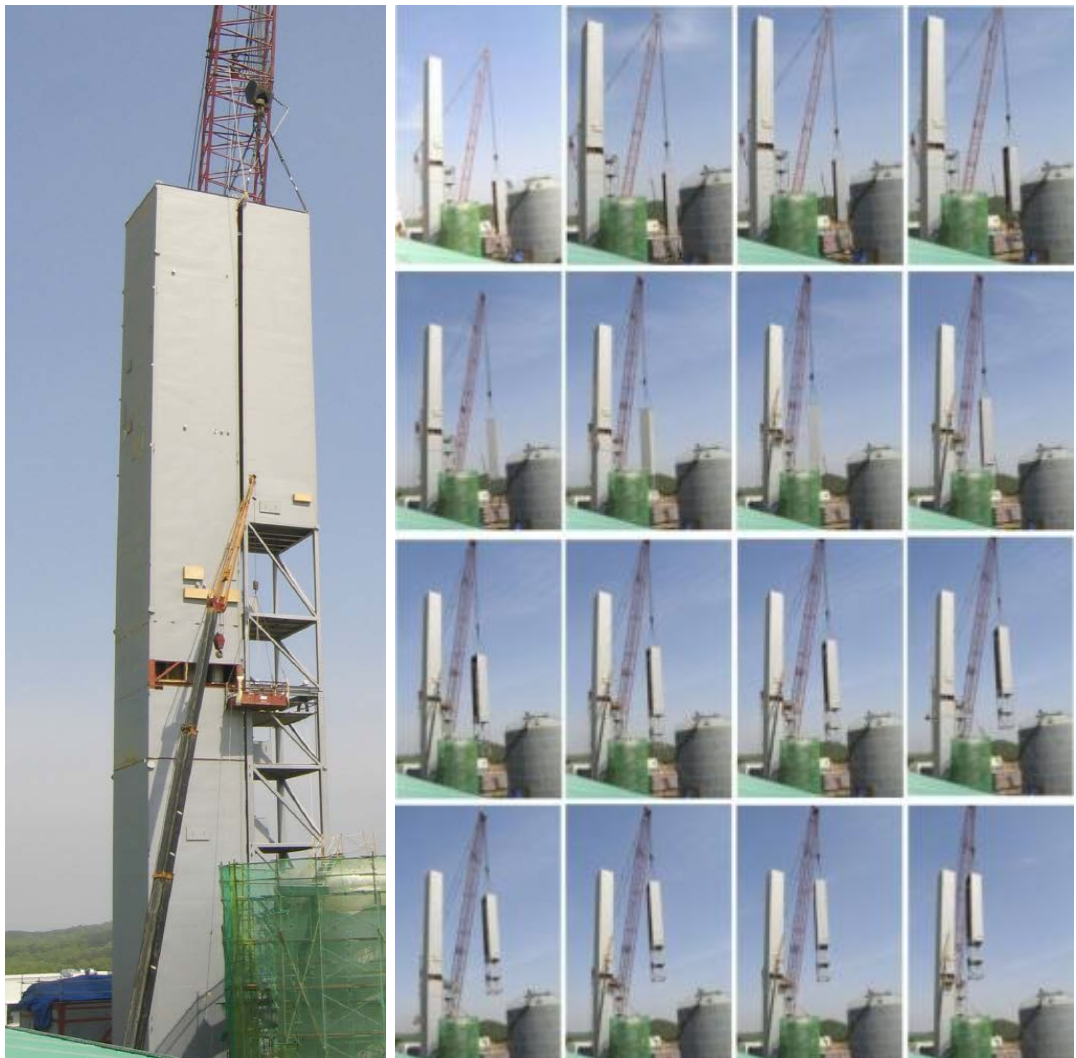


## 7. Epilogue

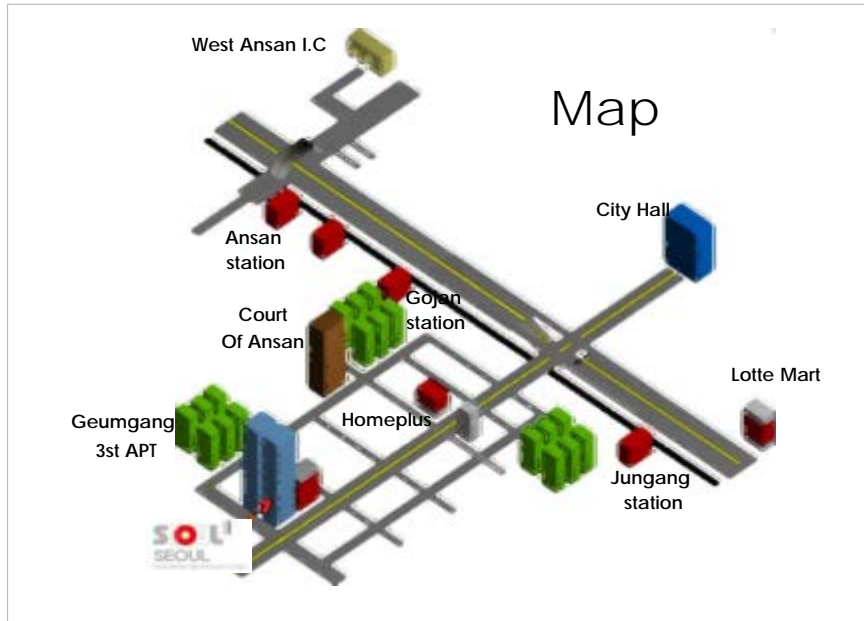
SEOUL Industrial Technical Corp. provides total engineering works from feasibility study to engineering, procurement, construction, supervision and manufacturing of UHP equipment, gas distribution equipment and other application facilities according to customer's requirements.

SEOUL Industrial Technical Corp. has been trying to fulfill the leading roles in the development of hi-tech gas facilities which is the basic industrial equipment.

Thereby, SEOUL Industrial Technical Corp. makes an effort to develop a potential market continuously and is always ready to meet the customer's demand that is getting more and more sophisticated and diversified. With the plenty of experience in engineering work SEOUL Industrial Technical Corp. always do our best to be a nice partner which satisfies any needs of customers and suppliers.







Office : 9<sup>th</sup> Floor, 165, Gwangdeok 1-ro, Danwon-gu,  
Ansan-si, Gyeonggi-do, Korea

TEL : +82-31-495-7776

FAX: +82-31-495-7706

Factory: 884, Godae-ro, Godae-myeon, Dangjin-si,  
Chungcheongnam-do, Korea

TEL : +82-41-355-7760

FAX: +82-41-355-7763