



Directory of Korean Smart-Farm Solutions

Directory of Korean Smart-Farm Solutions

Livestock

Plant Factory

etc.

Open field

Greenhouse

kotra

Korea Trade-Investment
Promotion Agency

 **KASFI**
Korea Association of Smart-Farm Industry

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Greenhouse





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SAMSAN Inc.
SEUNGIL ELECTRONICS Co.,Ltd.
SGT Co.,Ltd.
SHINAN GREEN-TECH Co.,Ltd.
Shinhan A-TEC Co.,Ltd.
SOHA TECH Co.,Ltd.
SUHWOOMS Co.,Ltd.
SUNNONG Co.,Ltd.
SYSCO Co.,Ltd.
UBN Corporation
VIVANS Co.,Ltd.
Wett Energy Co.,Ltd.
Won Automatic Co.,Ltd.

AFFES Co.,Ltd.



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- **Dept. :** Smartfarm Dept
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At a Glance

Business type	Air conditioner, Environmental control
Established year	2017
Employee number	5
R&D Employee	4
Annual Sales	(USD) 10,000,000,000
Export Amount	(USD)

Major Customers

Vietnam, ASEAN, Etc

To whom to supply

(B2C) Farmer
(B2B) Agricultural corporation, Urban Agriculture developer, Sales Partner
(B2G) Government Office

Strengths

1. Organization
Expert group with an average experience of 20 years or more
2. Technology
R&D center operation and related patents lot, S/W development skill
3. Experience
Extensive experience in industry and agriculture

Main Item



- Name** AFS-H12000
- Feature** Dual cooling air conditioner(Water & Frozen cycles)
- Function**
- Evaporative cooling method
 - Condensation cooling method
 - Complex cooling method



- Name** DM-1380, 1000
- Feature**
- 100% stainless steel ss304 as the fan blade
 - Automatically controlled opening and closing according to fan's operation and it is waterproof grade
- Function**
- Rapid exhaust with a lot of air volume (43,000m³/h, As a DM-1380)
 - Greenhouse / vinyl house requiring air circulation
 - Poultry, pigs, and houses requiring ventilation / exhaust



- Name** Farmtory 2.0
- Feature**
- Includes management information(ERP) along with sensor collection information and agricultural equipment control
 - Operation of multi-language systems
- Function**
- Temperature, humidity, co2, EC, Ph, etc sensor information collection
 - Flow fan, water supply, screen, etc. control
 - Business management (purchase, cultivation, sales, etc.), cultivation history tracking

AG-UNI Co.,Ltd.



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- **Title :** CEO & Founder
- **Dept. :** HQ
- **Website :** www.ag-uni.com

At a Glance

Business type	Manufacturing, Software supply Business
Established year	2019
Employee number	5
R&D Employee	2
Annual Sales	Preparing for mass production
Export Amount	(USD)
Certifications	ISO 14001, ISO9001, Patent 10, Trademark right 3

Major Customers

Russia(25%), America(25%), Asia(25%), Middle East(25%)

To whom to supply

(B2C) Farmer who runs a large Green house
(B2B) Ag-tech or Software (DB processing) company for partnership, Urban Agriculture developer for plant factory, R&D center for seed, Advanced Glass Greenhouse
(B2G) Government Office

Strengths

As a fusion solution for soil-based facility cultivation, the minimum resources (water, nutrient solution, oxygen) in the planting module are timely permeated and customized inside the soil to achieve maximum efficiency through uniform, high-quality, high-value-

Strengths

added production, and processing of cultivated data. Can be built with an automation solution through.

Main Item



Name

RENNO

Feature

ICT Soil Controllable Modular Multi-stage Cultivation Integrated Solution (Turnkey-based smart farm convergence technology - modular devices and data collecting and processing technology)

Function

- Module type for any place (Greenhouse, Plant factory, Urban farm, Vertical farm) | All-in-one type (Unnecessary to have additional equipment)
- Crop Growth Promotion by Controlling and customizing the root-zone environment
- Capable of collecting database from environment to cultivation know-how | Automation service



Name

PIUM

Feature

Smart pots for mushroom and plant cultivation

Function

- Automatic water supply and humidity control for mushroom growth
- Home cultivator with lighting effect
- Creating a natural humidity environment using korean paper and bottom irrigation using wick

BORINURI Inc.



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- **Dept.** : Smart Solution
- **Website** : www.borinuri.com

At a Glance

Business type	Manufacturing, Software, Agriculture
Established year	2018
Employee number	13
R&D Employee	5
Annual Sales	(USD) 1,261,102.66
Export Amount	(USD)
Certifications	ISO9001, ISO14001

Major Customers

America(15%), Asia(50%), Middle East(15%), Others(20%)

To whom to supply

(B2C) Farmer
(B2B) Sales Partner
(B2G) Government Office

Strengths

1. Smart farm solution program production technology
2. Possession technology for manufacturing mobile hydroponic cultivators
3. In Door Farm manufacturing technology

Main Item



- Name** In Door Farm
- Feature** Technology for hydroponic cultivation inside buildings
- Function**
- Possessing LED technology for hydroponic cultivation
 - Have internal ventilation system technology
 - Remote control using PC and smartphone



- Name** Container type hydroponic cultivation machine
- Feature** Technology for hydroponic cultivation in mobile containers
- Function**
- Air conditioner automatic control system
 - Remote control using PC and smartphone



- Name** Smart Solution
- Feature** Remote control using PC and smartphone
- Function**
- Smart control of internal environment
 - Artificial intelligence system development
 - Remote control using PC and smartphone

BYOUNG JUE AGRICULTURAL Co.,Ltd.



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- **Title** : President
- **Dept.** : Overseas Sales
- **Website** : www.tapebinder.com

At a Glance

Business type	Small And Medium-Sized Enterprises
Established year	1990
Employee number	5
R&D Employee	1
Annual Sales	(USD) 1,300,000
Export Amount	(USD) 40,000
Certifications	5 Kind Of Patent (USA, JAPAN, KOREA AND ETC)

Major Customers

CIS, Aisa, Oceania, Etc

To whom to supply

Agricultural Distributors Or Horticultrual Distributors

Strengths

In 1980s, BJA started to provide tape binders for grape farms to deal with physical problems and economic difficulty so that they could lift economic burden and do farm work efficiently. Keeping these core targets, Efficiency, Convenience, and Economics, in mind, we have produced Korean tape binders with own technical ability.

Strengths

Due to increased demand of greenhouses, by developing tape for house maintenance, we have successfully carried out reduction of economic cost and efficient maintenance to replace green houses.

In addition, we have tired to develop eco-friendly environment products like biodegradable tape used for tape binders.

Based on three core targets, we have consistently invested for technology development and obtained various intellectual property rights since the time when our first product was patented. We always try to do our best to improve our existing products and technology and also develop convenient equipments related to agriculture.

For example, we have developed pruning scissors which help fruit farms deal with difficulty of pruning and reduce economic burden and physical elements such as working condition and time. For better product, we keep focusing on various research and studies.

Moreover, since we participate in domestic and international exhibitions, we build a network with buyers from overseas and expand our business to foreign markets. This can be possible because lots of foreign buyers recognize high quality of our products and technology and trust us. At present, we export our products to about 20 countries.

We will always keep the three core targets, 'Effectiveness, Convenience, Economic', in our mind and always make a effort by developing our technology for better and high quality of products.

Main Item



Name

Tape Binder

Feature

Tape Binder used to bind crops such as a grapes, cucumbers, tomatoes, kiwi fruit, pumpkins, sesames and red peppers. Our Tape Binder is simple and fast and can do the work of between 5~7 people.

Tape of Tape Binder used is strong and the binding power is superior. And, It has 6 kinds of tape.

Staple of Tape Binder is longer then its competitors and does not break easily.

Main Item



Name

Greenhouse repairing Tape

Feature

Greenhouse Tape can be to effectively repair tears to greenhouse and can withstand all kinds of weather. It is more flexible and resilient than similar products on the market. Its bonding qualities are also superior and can withstand extremes of -20°C . It used Part destroyed of vinyl plastic hothouse and part destroyed of injection hose.



Greenhouse

Chang Sung Co.,Ltd.



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- **Dept.** : Oversea Sales & Marketing
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At a Glance

Business type	Manufacturing Business
Established year	2001
Employee number	4
R&D Employee	5
Annual Sales	(USD) 100
Export Amount	(USD)

Major Customers

Farm work, Industry Asia(50%)

To whom to supply

Farm work, Industry, Pig farm, Cattle farm, Poultry farm, Mushroom cultivation and etc

Strengths

Main Item


Name

Electric fan heater

Feature

Feature ect : rattling wind (wind 100M),
dehumidifying, 4steps change skill, remote control
heater&wind skill combined

Function

- (220V) 3, 4, 5, 6, 7, 8, 9KW
(380V) 9, 10, 12, 15KW


Name

Air Cooler

Feature

Eco-friendly way to cool and supply fresh air
Transfer harmless wind up to 70m away

Function

- 1.5KW 50평(165m²), 2KW 75평(248m²), 3KW 100평
(331m²), 5KW 130평(430m²), 7KW 150평(496m²)

CHUNG-OH ENGINEERING Co.,Ltd.



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- **Dept.** : Research Institute
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At a Glance

Business type	Manufacturing
Established year	2002
Employee number	48
R&D Employee	5
Annual Sales	(USD) 12,173,913
Export Amount	(USD) 129,447

Major Customers

Asia(60%), Europe(10%), America(20%), Others

To whom to supply

Distributor, Sales Partner
Government Office

Strengths

CHUNG-OH ENGINEERING Co., Ltd was established in 2002. We has know-how and technology during the long period of business. The main focus is automatic system of greenhouse and it also has many patents. Our products are durable and easy to use.

Main Item



youtu.be/6jlnVtTJOP4

Name

CODM8102 Series

Feature

Low noise, Low oscillation, Minimum power consumption, Maximum power driveline, Easy opening & shutting distance setting

Function

- Vinyl Automatic Opening & Shutting Geared Motor
- DC 24V
- 2.0A~2.5A
- 4.5 RPM
- 4.5 Kg.m



youtu.be/1kVwR9M00-U

Name

CODM 8103, CODM 8104 Series

Feature

Low noise, Low oscillation, Minimum power consumption, Maximum power driveline, Easy opening & shutting distance setting

Function

- Non-woven Automatic Opening & Shutting Geared Motor
- DC 24V
- 4.0A~5.0A
- 1.5~3.8 RPM
- 16~20 Kg.m



youtu.be/1kVwR9M00-U

Name

CODM 8105, CODM 8106 Series

Feature

Low noise, Low oscillation, Minimum power consumption, Maximum power driveline, Easy opening & shutting distance setting

Function

- Heat insulation cover Automatic Opening & Shutting Geared Motor
- DC 24V
- 5.0A~8.0A
- 1.5~1.6 RPM
- 24 Kg.m

Main Item



youtu.be/iv9cnK0jNuA

- Name** CODM 8104~6D, COAM 8104~6DA Series
- Feature** Low noise, Low oscillation, Minimum power consumption, Maximum power driveline, Easy opening & shutting distance setting
- Function**
- Double shaft Automatic Opening & Shutting Geared Motor
 - AC 380V
 - 0.53A~0.65A
 - 0.9~2.5 RPM
 - 22~30 Kg.m



youtu.be/7kLkZ_xq2HE

- Name** COAM 8505, COAM 8705, COAM 8707 Series
- Feature** Detailed limit distance control, Double safety device in breaking Limit Control, Manual operation function in break time, High economic efficiency and low electric power consumption
- Function**
- Horizontal screen curtain Automatic Opening & Shutting Geared Motor
 - AC 220~380V
 - 1.6A~8.9A
 - 2.0~6.0 RPM
 - 1/2~2.0 HP



- Name** Automatic Control Box
- Feature** Safety device in over voltage input
- Function**
- Time Control
 - Temp. Control
 - Individual Control etc

Main Item



Name COFZ Series

Feature 2 crops available(option)/Nutrient A, B, C(acid), D, E/
solar radiant sensor control(option)

Function

- Nutrient solution system
- Reuse drain



Name COFF-3000

Feature Multi variable controller for glasshouse and
greenhouse
Alarm in case of disaster or emergency through
integrated control (monitoring)
Establishing management system of growth and
development of farm

Function

- ICT- Complex Environment Control System
- Automation of greenhouse equipment
- Recording and saving condition of growth and
development
- Datafication of operating and log records
- Data analysis and sensor analysis

Damootech Co.,Ltd.



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- **Title :** CEO/CTO
- **Dept. :** R&D Center
- **Website :** www.damootech.com

At a Glance

Business type	Manufacturer
Established year	2015
Employee number	7
R&D Employee	5
Annual Sales	(USD) 360,000
Export Amount	(USD)
Certifications	ISO9001, ISO14001

Major Customers

America(25%), Asia(25%), Middle East(25%), Others

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

1. Wireless Data Transmission
2. Reliable Soil Monitoring Sensor
3. Patented Sensor Technology

Main Item



Name

Soil monitoring Sensor

Feature

Wireless, Reliable, Accuracy, Easy
Soil moisture, Soil temperature, Soil EC

Function

- Wireless data tanceiver
- Battery or USB type Power supply
- Long life time



Name

Environment Sensor

Feature

Temperature, humidity , CO₂ measure

Function

- Wireless data tranceiver
- USB type Power supply
- Long life time

Delta E&C Co.,Ltd.



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- **Dept. :** Management
- **Website :** www.usairfog.com

At a Glance

Business type	Manufacturing
Established year	2012
Employee number	3
R&D Employee	2
Annual Sales	(USD) 100,000
Export Amount	(USD) 3,562.00
Certifications	

Major Customers

Japan(100%)

To whom to supply

T Plan Inc.

Strengths

1. Unique 'ULV Spraying Nozzle' officially recognized by the Korea Rural Development
2. Automatic control extermination in Greenhouse :
over 95% extirpation à space eradication
3. Air cooling in Greenhouse & Livestock :
3~5°C temperature drop
4. Saving chemicals : 60.8% à 10~30%

Main Item


Name

Airfog Nozzle

Feature

Unique performance all around the world !

Function

- Low pressure ULV Nozzle à droplet size 50µm below
- Nozzle diameter = 0.8mm à blocking prevent(16times bigger hole than normal products)
- Spray distance = Max. 8m à available distance adjustment for spray


Name

Automatic control unit

Feature

IoT remote control

Function

- On-off control
- Operational timer
- Temperature/Humidity control
- Self cleaning waterline remained water-free freezing

DK ECOFARM Co.,Ltd.



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- **Title :** Presidnet
- **Dept. :** Admin Manager
- **Website :** www.dkecofarm.com

At a Glance

Business type	Fabrication
Established year	2016
Employee number	11
R&D Employee	6
Annual Sales	(USD) 500,000
Export Amount	(USD)
Certifications	K-Global300 company, venture company, agro-industrial convergence small and medium sized company

Major Customers

Asia(30%), Middle East(30%), CIS(30%), Etc(10%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

1. Smart farm 2.0 integrated growth environment automation solution
2. Establishment of standard cultivation condition DB by each crop. Data-driven precision control

Strengths

3. Remote control solution by smartphone
4. R&D network with leading Korean companies such as LG and KT, schools, and national research institutes
5. Technology development of eco-friendly green circulation nutrient solution supply

Main Item



Name Indoor Smart Plant Grower

Feature Menu-based automatic planting machine (Plant grower with refrigerator style and home appliance interior)

- Function**
- Menu-based fully automatic plant cultivation system
 - Stores over 30 crop cultivation recipes for salad vegetables
 - Remote control possible
 - Thanks to designing large capacity per 1 period produce more than 50 bags of pesticide-free vegetables



Name Container type smart farm

Feature Container-based plant growers for 20ft and 40ft size

- Function**
- Cultivation of the crop at any time of the year regardless of the external environment
 - Quick installation and operation possible
 - Greenhouse for mixed-type composition possible with standardized and structured products
 - Convenient to expand and move by module type

Main Item



- Name** Circulation nutrient solution supplier
- Feature** Automatic circulating nutrient solution supply device
- Function**
- Automatic adjustment of nutrient solution as required crop growth (concentration, supply amount, supply cycle)
 - Basic application of filtration and sterilization equipment
 - Remote control by smartphone



Greenhouse

EFCONTROLS Co.,Ltd.



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- **Dept.** : Business & Planning
- **Website** : www.efcontrols.com

At a Glance

Business type	Manufacturing, SW/SI/Platform
Established year	2014
Employee number	2
R&D Employee	1
Annual Sales	(USD) 6,700
Export Amount	(USD)
Certifications	

Major Customers

China(45%), India(65%)

To whom to supply

Agriculture Distributor

Strengths

1. Economic Infrastructure
2. Economic System
3. Excellent Security
4. Extention and Diversity of Interface

Main Item



- Name** SETTOP BOARD for IoT HUB
- Feature** LTE MODEM, Cortex-M3 MPU, WiFi, RF, Sensors
- Function**
- Transceiverring a mobile signal
 - WiFi AP-STA
 - Digital Signal Processing



- Name** LTE MODEM
- Feature** Voice, SMS, Data/LTE CAT-4/30pins Interface
- Function**
- Transferring a mobile signal
 - FDD BAND 1/3/5/8 TDD BAND 38/39/40/41
 - TTL-level serial communication Interface

eZEX Co.,Ltd.



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At a Glance

Business type	Manufacture, Sales
Established year	1999
Employee number	22
R&D Employee	11
Annual Sales	(USD) 10MM (2017)
Export Amount	(USD) 8MM (2017)
Certifications	KTC, UL, CE

Major Customers

LG U+, GE, LH, KT

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

Proven system in market as high quality
• LH who the biggest Mega city development company in Korea will install our smart farm solution in their demonstration town for future city development business.

Main Item



Name

C20 Smart farm

Feature

IoT based Agriculture system

Function

- Remote control system through Mobile phone
- IoT based Sensor and actuator management
- Rule & Schedule based control algorithm



Name

C20 smart home

Feature

Smart home management system with IoT device

Function

- Remote control system through Mobile phone
- IoT based Home security and automation system
- Can be installed to legacy home and building

FARMERS LAB Co.,Ltd.



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- **E-mail :** bk@bkgreenhouses.com
- **YouTube :**youtu.be/3ieYu-1qEmg
- **Contact Person :** Kay Nam
- **Title :** CEO
- **Dept. :** Marketing Director
- **Website :** www.farmerslab.org
www.bkgreenhouses.com

At a Glance

Business type	Agriculture Company , Agriculture R&D Lab
Established year	2008
Employee number	6
R&D Employee	2
Annual Sales	(USD) 500,000
Export Amount	(USD) 200,000
Certifications	Small & medium business corporation

Major Customers

America(25%), Oceania(25%), Asia(25%), Middle East(25%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center,
Distributor, Sales Partner
(B2G) Government Office

Strengths

The rotating automatic cultivating machine has two main strengths over the existing 'fixed multi-stage cultivator' by increasing its benefits and supplementing the shortcoming of the existing fixed multi-stage cultivator. First, it drastically reduces the labor force by growing and harvesting in one place. Secondly,

Strengths

it allows various plant cultivation by offering irrigation system compare to the existing cultivators that were limited to follicle vegetables.

Main Item



youtu.be/3ieYu-1qEmg

Name

Greenhouse & Environment control system, Cultivation system

Feature

Large-scale greenhouses and cultivation systems made of Korea's highest quality materials will be installed optimized for the climate and environment of the installation area

- provide various solutions from facility design to cultivation know-how transfer

Function

- Multi span Greenhouses
- NFT, TROUGH, Nursery, Triplee system
- Smart Controller , Automatic Environment Control



youtu.be/tl8twN5Frm8

Name

BKCC(BK Conveyor Culture Smart Cultivator)

Feature

One Point Irrigation, water tilting, smart controller, auto moving trays

Function

- Increased in productivity
- Energy & Labor cost reduction
- No substrate



youtu.be/_31wHkGUWYU

Name

D.I.Y Greenhouse

Feature

It is designed so that anyone with basic knowledge can build it without difficulty

Function

- Easy installation
- Packages all materials required for installation
- Provide easy installation guide (instruction manual)

Global Coding Research Co.,Ltd.



- **President** : ChangHun Lee
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- **YouTube** : www.youtube.com/watch?v=PBpkZItTccU
- **Contact Person** : ChangHun Lee
- **Title** : CEO
- **Dept.** : Management Financial
- **Website** : www.g-coding.com

At a Glance

Business type	Information Service
Established year	2016
Employee number	12
R&D Employee	12
Annual Sales	(USD) 780,000
Export Amount	(USD) 6,700
Certifications	ISO 9001

Major Customers

America(25%), Asia(50%), Europe(20%), Others(5%)

To whom to supply

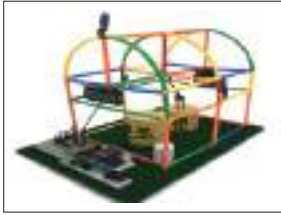
(B2C) Farmer
(B2B) R&D center
(B2G) Government Office, Office of education

Strengths

Global Coding Research Institute is a company that provides SW education contents and ICT solutions. Education content provides 7 types of content including life coding, smart home coding, smart farm coding, autonomous vehicle coding, drone coding, art coding, block coding, etc.

Text-based IoT coding content using intelligent sensors, our coding education content, is an experiential text-based coding content that is learned while making it easy and fun.

Main Item


Name

Text-based IoT Coding content(Smart farm)

Feature

Learning through our own coding education corporation "Metaphor Coding" Text-based experience-based IoT coding education content

Function

- Coding education content that anyone can easily learn to code while creating a smart farm using the Arduino "intelligent sensor" and its own coding education company "Metaphor Coding"


Name

Smart farm real-time transaction solution

Feature

Smart farm subscription service raised by AI and sold by REAL

Function

- Real-time harvest prediction system through image analysis
- Real-time crop cultivation information provision system
- Pre-reservation purchase system


Name

Smart farm plant

Feature

A farm that can properly maintain and manage the growing environment of crops and livestock by grafting ICT to a green house

Function

- Data analysis and processing system for complex environment control
- Smart farm-based integrated management system construction
- Growth environment analysis technology using crop sensor information

Main Item



Name Basil Smart Farm Solution

Feature Smart Farm Complex Environment Control System
Remote Control App

Function

- Real-time smart farm sensor data value reception
- Smart farm sensor remote control using Bluetooth communication
- Virtual simulation mode that can arbitrarily manipulate smart farm sensor values



Greenhouse

Global Smart Solutions, Inc.



- **President** : OkKyung Park
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- **YouTube** : www.youtube.com/watch?v=-B3GBDrRqmc&feature=youtu.be
- **Contact Person** : JongHee Lee
- **Title** : CEO
- **Dept.** : Research Center
- **Website** : www.gssiot.com

At a Glance

Business type	Manufacture, Scientific and Technical Service
Established year	2016
Employee number	6
R&D Employee	4
Annual Sales	(USD) 40,538.05
Export Amount	(USD)
Certifications	KC Certificate, Venture Business, Female-Business, Certificate of the Research Center, 5 of patent registration

Major Customers

America(25%), Asia(25%), Middle East(25%), Others

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

1. Company
Global Smart Solutions, Inc. is an IT company that provides the un-tact remote wireless environment control solutions across society and industry based on the Internet of Things (IoT)

Strengths

technology.

Since our establishment, we are focusing on innovating the value with researchers have abundant experience and expertise and then we are constantly trying to provide the optimum solution that suits your needs that in building IT infrastructure/platform to developing the application.

2. Main item

- e-GreenFarm consists of nodes that monitor temperature and humidity, that control a ventilation fan and a heater, and a main system. It is a system that can be expanded according to customer needs and is a platform that can be linked with various sensors other than temperature and humidity.
- CCTV-linked real-time monitoring is possible, and it is an integrated solution that can be extended to the Big-data platform that can collecting, analysis, processing, and visualize data through the development of data linkage programs.

Main Item



www.youtube.com/watch?v=-B3GBDrRqmc&feature=youtu.be

Name

e-GreenFarm system

Feature

- IoT Smart Farm System
- Wireless remote environment control platform
- Self-developed 'net network' platform
- Real-time monitoring through CCTV
- Various sensors such as temperature, humidity, weather, soil, fire detection
- Various devices such as skylight and side window motor, irrigation, nutri

Function

- The Optimal IoT Smart agricultural system
- A capable of linking with CCTV to observe the actual situation of the farm in real time
- A capable of linking with various sensors (temperature, humidity, weather, EC, soil, fire detection, etc.) and actuators (skylights and side windows, motors, irrigation, nutrient solutions, Lighting, etc.)
- Automatical and remoting control system by a smartphone

GNS KOREA Inc.



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- **Contact Person :** EdwardK JHI
- **Title :** President
- **Dept. :** Sales & Marketing
- **Website :** www.gnsspd.com

At a Glance

Business type	SPD Design, Manufacturing, Sales
Established year	2007
Employee number	3
R&D Employee	1
Annual Sales	(USD) 450,000
Export Amount	(USD)
Certifications	KS, ISO9001 & 14001

Major Customers

North America(30%), Asia(40%), Europe(30%)

To whom to supply

- (B2B) Urban Agriculture developer, R&D center, Distributor, Sales Partner, Electrician in charge of Electric facilities or systems including electric infra
- (B2G) Government Officer in charge of Agriculture

Strengths

GNS KOREA is a leading company that Design, Manufacturing & Sales of SPD(Surge Protective Device) / TVSS(Transient Voltage Surge Suppressor) in KOREA. GNS SPD(Surge Keep) meets the standard IEC 61643-11.

Main Item



Name

Surge Protective Device for Electrical/Electronic Equipments & for Telecommunication Equipments

Feature

Protection of Electrical/Electronic Equipments or System from Impulse (Surge & Transient)

Function

- Application Codes & Standard
- IEC 61643-11;2009
- UL1449 4th Edition
- ANSI/IEEE C62.41
- NEMA



Name

Surge Protective Device for Telecommunication Equipments

Feature

Protection of Telecommunication Equipments or System from Impulse (Surge & Transient)

Function

- Application Codes & Standard
- IEC 61643-21;2007
- UL1449 4th Edition
- ANSI/IEEE C62.41
- NEMA

Green Control System Ltd.



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- **YouTube :** www.youtube.com/watch?v=1Zs4K-AwOv0
- **Contact Person :** YoungKyun Jang
- **Title :** CEO
- **Dept. :** Management Team
- **Website :** gcsmagma.com

At a Glance

Business type	Manufacturing, SMARTFARM, Amniotic Fluidize
Established year	2005
Employee number	13
R&D Employee	4
Annual Sales	(USD) 2,531,819
Export Amount	(USD)
Certifications	Inno-Biz, Venture Business Certificate

Major Customers

Asia(100%)

To whom to supply

(B2C) Farmer
(B2B) Agricultural machinery installation company
(B2G) Government Office

Strengths

System for automatically controlling the motors and valves of various facilities installed in a greenhouse according to a preset growth program in a composite environment controller to create an optimal growth environment for crops and to store data to provide the greenhouse desired by growers.

Main Item



Name

SMARTFARM(MAGMA-1000)

Feature

The computer recognizes and calculates the interrelationship between the climate and the unraised environment inside and outside the greenhouse, and the control device (Actuator) is controlled in a complex manner to create the optimal growing environment for the crops.

Function

- Manual control : random operation of the controller on the keyboard or on-site control panel
- Automatic control: Automatic operation of the controller considering complex environmental factors
- Entering the configuration settings: You can freely change the set target value and control conditions.
- Record-keeping function: Storage and retrieval of data
- Alarm function: Proper measures for sensor and actuator failure, abnormal weather, power failure, etc
- Communication function: data and information exchange between remote branches



Name

Amniotic Fluidizer(MAGMA1000V2.0)

Feature

As a method for artificially controlling the culture solution, the concentration (EC) and hydrogen ion concentration (pH) of the culture solution are generally measured by using an EC sensor and a pH sensor. As a result, raw water is supplied when EC is higher than the target value, concentrated culture solution is replenished when pH is higher, acid solution is added when pH is higher, and alkali solution is added when pH is lower.

Function

- Sequence control by hard logic
- Digital Control using Microcomputer
- Direct Pipeline Infiltration System
- Continuous Mixed Supply System

HANJIN AGRICULTURE & INDUSTRY Co.,Ltd.



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- **Title** : Director
- **Dept.** : Director
- **Website** : hanjinjsk@hanmail.net

At a Glance

Business type	Agriculture & Industry
Established year	2013
Employee number	3
R&D Employee	
Annual Sales	(USD) 2,398,259
Export Amount	(USD) 1,408,280

Major Customers

Indonesia, Uzbekistan

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths



1. 30 Years of Green House Building Experience
2. Numerous Successful Domestic/ Overseas Building Experience
3. The Leader of Hanging Up-Down Bed installation

Main Item



Name

Hanging Up-Down Bed Introduction(Strawberry),
Design & Building strawberry house structures

Feature

- Reduction of Production Costs
- Minimization of labor fatigue by bed height adjusting
- Move experiential beds down for the tourists
- Cooling of rhizosphere and growing point: Achieve high-quality and high-yielding

Function

- A moving nutrient cultivation beds for straw-berry that made to move up and down by hanging to the ceiling structure
- The cultivation system that expanded planting area and workspace with general ground or high-bed cultivation
- A facility that designed to reinforce the frame structure to avoid structural change due to the weight of the beds

HUMITEM Inc.



- **President :** JiSung Park
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- **YouTube :** youtu.be/3uoKCYJLAt0
- **Contact Person :** JiSung Park
- **Title :** CEO
- **Dept. :** Management
- **Website :** www.humitem.com

At a Glance

Business type	Agricultural and Livestock Machinery Manufacturing
Established year	2015
Employee number	5
R&D Employee	2
Annual Sales	(USD) 522,389
Export Amount	(USD)
Certifications	KC certification, PCT / KR2013 / 010005

Major Customers

America(25%), Asia(50%), Europe(25%)

To whom to supply

(B2C) Farmer
(B2B) R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

Humitem provides ultra-precise environmental control by creating a new concept of complex environmental controller that operates at sensory temperature rather than the existing temperature-oriented controller. By reading the temperature and humidity

Strengths

through sensors installed inside the livestock or greenhouse, it calculates the sensory temperature that crops or livestock actually feel on the skin. Based on the calculated sensible temperature, it creates the optimal environment for growth by controlling the ventilator, heater, air conditioner, and air conditioner.

The precision air conditioning system is a new type of ventilation system. Mixing cold air from outside and hot air from inside makes the inside of a livestock or greenhouse into an optimal growing environment. This is not only effective in increasing production but also in terms of energy saving.

Main Item



youtu.be/CpiUdVur7GE

Name

Precision Complex Environment Controller (Rich S3)

Feature

It provides the optimal environment for livestock growth by reading the temperature and humidity values from the temperature and humidity sensor installed inside the house and calculating the sensory temperature

Function

- Precise control with complex factors such as temperature / humidity / sensory temperature
- Provides automation function by age of the pig
- All-in-one control and monitoring linkage of all peripheral devices
- Full support for emergency operation such as power failure/sensor failure/ventilation fan failure



youtu.be/269IVNobYJw

Name

Precision air conditioning system

Feature

The precision air conditioning system is a positive pressure ventilation system and is mainly used in livestock houses. It is an ultra-precise ventilation system that makes the inside of the house an optimal environment for growth by mixing cold air from outside and hot air from inside

Main Item



youtu.be/fxX4kjU7AXA

Function

- Indirect precision air conditioning that does not directly hit the cold outside
- Automatic and precise control of damper and self-heater based on internal temperature and humidity
- Reduces odor by reducing dust and manure inside the house by using an environmental filter
- Implementing complete emergency operation in case of power failure or system abnormality

Name

Precision Control AC Motor

Feature

For use in poor livestock environments, it has a dustproof and waterproof function. And precise control is possible by checking the RPM of the motor

Function

- Dustproof and waterproof function suitable for high temperature and high humidity environment (IP67)
- 10% less power consumption compared to other companies by using high efficiency core
- Precision control of motor rotation speed using Hall sensor



Greenhouse

Hwasung Co.,Ltd.



- **President** : DaeSeok Na
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- **Contact Person** : MiHui Na
- **Title** : CEO
- **Dept.** :
- **Website** : www.hspot.kr

At a Glance

Business type	Agricultural Materials
Established year	1996
Employee number	13
R&D Employee	4
Annual Sales	(USD) 2,495,000
Export Amount	(USD) 171,132

Major Customers

Japan, Thailand, Others

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture Developer, R&D Center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

1. We are a company that specializes in producing potted plants and yukmyo trays for agriculture
2. It's not just a potted plant, it's a functional flowerpot, it's available for a variety of crops

Strengths

3. Produce specialized products that are focused on specific plants
4. There is a separate laboratory, and we are working with a professional researcher from the Korea Advanced Institute of Agriculture and Technology

Main Item

**Name**

Seedling pot-wooreongi pot

Function

- Patented drip-irrigating nursery pots directly water the roots using drip irrigation lines
- Prevent anthracnose, diseases and damage
- Choose from a range of sizes

**Name**

Seedling pot-multi cup bed

Function

- Water and soil savings can be achieved by using integral ports individually
- Also, when one crop gets sick, it does not spread the disease to another

HyunDae-Agricultural Metal Co.,Ltd.



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- **YouTube** : <https://www.youtube.com/watch?v=EXOdf0ZlqCQ&t=325s>
- **Contact Person** : Sangyeon-Han
- **Title** : CEO
- **Dept.** : Business Department
- **Website** : <http://www.h-nongjajae.co.kr/index.php>

At a Glance

Business type	Metal Processing Product Manufacturing
Established year	1997
Employee number	19
R&D Employee	4
Annual Sales	(USD) 8,945,343.95 ~ 44,726,719.74
Export Amount	(USD) 626,230.09
Certifications	"BiWaDo" Patent Certificate, "GaChiBal" Patent Certificate "ISO" 9001 : 2015, "KS Q ISO" 9001 : 2015 (Authentication number : JK-17868)

Major Customers

Uzbekistan(70%), Russia(15%), Kazakhstan(15%) others ..

To whom to supply

Green house construction company.
(Green House, Smart Farm, cattle shed, pigsty) or related types of business trading agency.

Strengths

We are "Hyundae-Agricultural Metal", the largest producer of agricultural materials in Korea. And we developed a "Biwado" system that can control temperature and humidity, which was a disadvantage of smart farms. and We produce our own materials, so the cost is lower than anywhere else. Recently, it is exporting to Central Asia including Uzbekistan.

Main Item



- Name** Bi-Wa-Do
- Feature** Product, can control temperature and humidity
- Function**
 - Ventilation is possible even during the summer high temperature/ rainy season.
 - Crops without high temperature disturbances.
 - Easy to control temperature and humidity.
 - Excellent durability and stability.



- Name** Greenhouse House A-Z Project, "Turn key"
- Feature** Comprehensive service from greenhouse design to local construction.
- Function**
 - A free estimate.
 - The head office solves the complicated export process.
 - Factory with material produced its own cost.



- Name** Ga-Chi-Bal
- Feature** Steel Structural Stiffener.
- Function**
 - Welding is not required.
 - Easy to assemble with bolts and nuts.
 - The stronger and safer Green House building.
 - Only our company can use it because we have a patent.

ILPUM Corp.



- **President** : ZeaJong Gahng
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- **Title** : CED
- **Dept.** : R&D
- **Website** : www.ilpum.net

At a Glance

Business type	Manufacturer for DiBA PLC
Established year	2020
Employee number	1
R&D Employee	1
Annual Sales	(USD) 6,000
Export Amount	(USD)
Certifications	KC

Major Customers

Republic of Korea(100%)

To whom to supply

Builder of the Automation System

Strengths

1. Easy to use
2. Competitively low price
3. Good compatibility with third-party products
4. High flexibility for various applications

Main Item



- Name** DG19E5A (CPU Type 1)
- Feature** Operation module of automatic control system
- Function**
- Wi-Fi : Supporting MODBUS TCP Server/Client or User Defined Protocol
 - RS485 : Supporting MODBUS RTU Master/Slave or User Defined Protocol
 - 4 Analog Outputs : Voltage(0~10[V])
 - 4 Universal Inputs : Digital Input or PT1000(Temperature Sensor)
 - 2 Digital Outputs : Contact A/B, Maximum 10[A] (DC~30[V], AC~230[V])



- Name** DG17E4C (MODBUS RTU AI)
- Feature** Analog input processing module of automatic control system
- Function**
- RS485 : Supporting MODBUS RTU Slave Protocol
 - 8 Analog Inputs : Voltage(0~10[V]), Current(0~20[mA])
 - 8 Universal Inputs : Digital Input or PT1000(Temperature Sensor)



- Name** DG16E4E (MODBUS RTU DO)
- Feature** Digital output processing module of automatic control system
- Function**
- RS485 : Supporting MODBUS RTU Slave Protocol
 - 8 Digital Outputs : Contact A/B, Maximum 10[A] (DC~30[V], AC~230[V])



- Name** DG16E4A (MODBUS RTU DI)
- Feature** Digital input processing module of automatic control system
- Function**
- RS485 : Supporting MODBUS RTU Slave Protocol
 - 8 Digital Inputs : Judgment of open/close circuit

ioCrops Inc.



- **President :** JinHyung Cho
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- **E-mail :** info@iocrops.com
- **YouTube :** www.youtube.com/channel/UCLQqCs4dgvRqnBtVIQCHwIQ/featured
- **Contact Person :** MinSeok Lee
- **Title :** CEO
- **Dept. :** Business Development
- **Website :** www.iocrops.com

At a Glance

Business type	SW/SI/Platform ioFarm (ioCrops Cloud), ioCrops Sensors
Established year	2018
Employee number	9
R&D Employee	7
Annual Sales	(USD) 100,000
Export Amount	(USD)
Certifications	KC

Major Customers

Europe(50%), China(50%)

To whom to supply

(B2C) Farmer / Greenhouse Owner
(B2B) R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

ioCrops provides a cloud-based data analysis platform which helps growers make more efficient data-driven decisions on crop management.

Main Item



www.youtube.com/channel/UCLQqCs4dgvRqnBtViQCHwIQ/ featured

Name

ioFarm (ioCrops Cloud)

Feature

ioFarm Integrates all data-sources from a greenhouse into a cloud-based platform for AI analysis

Function

- ioFarm provides a secure data storage in the cloud and a powerful data visualization tool
- Collects raw data from different sources including Climate Computers (ex. Priva), ioCrops Sensors and 3rd party sensors
- Based on gathered data from your greenhouse, ioFarm predicts the future behavior of the climate with AI analysis



Name

ioCrops Sensors

Feature

ioCrops Sensors can be connected to a wireless IoT gateway : Node Box in user's preferences

Function

- Measures basic data (climate, irrigation, slab characteristics) via scalable HW sensors
- All measured data are connected to ioFarm and supports Plug & Play

JEONG-IL GLOCHEM Co.,Ltd.



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- **Contact Person** : JinKyu Park
- **Title** : CEO
- **Dept.** : Administration Department
- **Website** : www.alcotextile.co.kr

At a Glance

Business type	Manufacturing
Established year	2011
Employee number	10
R&D Employee	2
Annual Sales	(USD) 5,000,000
Export Amount	(USD) 1,000,000

Major Customers

CIS(20%), Japan(15%), Asia(15%), USA(10%), Middle East(5%), Others

To whom to supply

Greenhouse Builders, Farmers
Agricultural Products Distributer, Sales Partner.
Government Office

Strengths

Aluminium coated Breathable Insulation materials with Moisture Transmission. Aluminium coated Warm curtain and Sunshine shading screen for Agricultural Greenhouse as well as Cuttle Shed.
- Warm in Winter and Cool in Summer

Main Item



Name

Aluminium coated Warm curtain

Feature

Aluminium coated Breathable Insulation materials

Function

- Aluminium coated with Moisture Transmission
- Thin and Light but Good Insulation/ Reflection



Name

Aluminium coated Warm Curtain and Sunshine Shading Screen

Feature

Warm in Winter and Cool in Summer

Function

- Moisture Transmission
- Thin and Light but Good Insulation/ Reflection



Name

Aluminium Sunshine Shading Screen

Feature

Cool in Summer

Function

- Thin and Light but Good Reflection
- Good Reflection for Shading screen in Summer

KF Co.,Ltd.



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- **YouTube** : www.youtube.com/channel/UCJdAvyloH_Ut_801MlgKGzQ
- **Contact Person** : SungMin Park
- **Title** : CEO
- **Dept.** : Operation
- **Website** : <https://blog.naver.com/kf0314>

At a Glance

Business type	Nutrient Solution / Smart Farming
Established year	2017
Employee number	5
R&D Employee	2
Annual Sales	(USD) 1,084,206.72
Export Amount	(USD)

Major Customers

America(25%), Asia(25%), Middle East(25%), Others(25%)

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

Main Item



www.youtube.com/channel/UCJdAvyloH_Ut_801MlgKGzQ

Name KF-7

Feature Nutrient solution

- Function**
- Nutrient solution control using light quantity
 - Control using a smartphone
 - Nutrient solution controller suitable for large greenhouses



www.youtube.com/channel/UCJdAvyloH_Ut_801MlgKGzQ

Name KF-900

Feature Small nutrient solution for plant factory

- Function**
- Control using a smartphone
 - Nutrient solution suitable for indoor and small greenhouse
 - Environment control function



www.youtube.com/channel/UCJdAvyloH_Ut_801MlgKGzQ

Name KF-3700

Feature Complex environment control

- Function**
- Complex environmental control of greenhouse environment
 - Control using a smartphone

KOREA DIGITAL Co.,Ltd.



- **President** : JongBin Kim
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- **YouTube** : www.youtube.com/watch?v=xQpW3QRkv7k
- **Contact Person** : ManHee Lee
- **Title** : CEO
- **Dept.** : R&D Center
- **Website** : koreadigital.com

At a Glance

Business type	Electronic Device, Educational SW
Established year	1997
Employee number	52
R&D Employee	25
Annual Sales	(USD) 3,491,667
Export Amount	(USD) 833,333
Certifications	bsi, CE, RoHS, ISO-14001

Major Customers

LCI, DASOL, JSR, SENECOM, VISION

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

1. Our company has an SMD line, we produce and sell our products
2. We provide reliable products to our customers with a variety of experiences
3. We have reliable and diverse sales network and customers

Main Item



www.youtube.com/watch?v=a7q0uPeBh4c

Name

Sense Cube

Feature

Founded in 1997, it is a registered brand for the industrial sensor business of Korea Digital

Function

- We provide the optimal solution based on sensor-related expertise and proven experience.
- Indoor ventilation, air quality management, agricultural and livestock environment monitoring
- The first in Korea to develop a dual NDIR sensor module that can quickly and accurately measure gas concentration



www.youtube.com/watch?v=A6oIDt1dHQ8

Name

Science Cube

Feature

Science Cube is the representative MBL that boasts the largest distribution of educational institutions in Korea (over 2,500 educational institutions nationwide)

Function

- Reasonable price
- Best customer support
- Free distribution of science#, the most powerful analysis program



www.youtube.com/watch?v=K2k6sA6aKdw

Name

Farms Cube

Feature

It is the most excellent complex environmental control system in which precise sensor technology, control technology, and advanced wireless technology are combined

Function

- Easy installation
- Easy operation
- It reflects the know-how of farmers' crop growth

Korea Farm Inc.



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- **YouTube :** www.youtube.com/watch?v=kBP8P6FbfIY
- **Contact Person :** YongGil Kim
- **Title :** CEO
- **Dept. :** General Manager
- **Website :**

At a Glance

Business type	Manufacturing Agricultural Machines
Established year	2019
Employee number	7
R&D Employee	2
Annual Sales	(USD) 949,638
Export Amount	(USD)
Certifications	30 Patents

Major Customers

America(50%), Asia(50%)

To whom to supply

(B2C) Farmer, Export broker

Strengths

Other ordinary 'smart farm' is aquafarming system using piled up-plant bed. To produce plants in facility, they must have the working space between beds and it is 30~40% of total space. But our 'Trolley conveyor system' doesn't need the working spaces between plants and make it at any side of facility. And it is one of our strength 'High space efficiency'.

Strengths

A big weakness of multiple layered cultivation (to increase space efficiency) is high temperature at upper layer, and subluminoous at bottom layer, and it leads to decrease in yield. But our trolley conveyor system makes plants move to up and down repeatedly, so can reduce environmental deviation significantly.

Youth of course, and aged, or even disabled can work in this system because they always can work sitting down. Even high height plants, we can set up conveyor line down and also control the speed.

Main Item



Name

Trolley conveyor smart farming system

Feature

Labors can just work sitting down and doesn't need to move because plants are moving to them

Function

- Because plants are passing 'Nutrient solution supply section', 'Pollination section', 'Water spray section' and comes to workroom, labors don't have to move and just can work sitting down from when sowing seeds until harvests



Name

Perennation fruit tree growing system using cart-line

Feature

To harvest from perennation fruit tree such as Shine Muscat, it takes over 3years. So in that period, you can grow other plants that can be harvested in short-term such as leafy vegetables

Function

- Plant the perennation fruit tree in non-woven fabric pot, make them move into workroom by rail. plant leafy vegetables at free space to increase the crop

Main Item



Name

Container Smart farming system

Feature

Set up the trolley conveyor system in container and use LED light for plants growing

Function

- Trolley conveyor container with LED lightning system inside and grow various plants. Make workroom at entrance so can work comfortable



Greenhouse

MaaSFarm Co.,Ltd.



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- **Contact Person** : Hyun Lee
- **Title** : CEO
- **Dept.** : Planning-R&D-Marketing
- **Website** : www.maasfarm.com

At a Glance

Business type	Coporation
Established year	2018
Employee number	1
R&D Employee	1
Annual Sales	(USD)
Export Amount	(USD)
Certifications	Korea PPS Venture Startup Innovative Product

Major Customers

Denmark(30%), Netherlands(30%), Canada(15%), America (15%), Japan(10%)

To whom to supply

(B2C) Farmer/Greenhouse Grower
(B2B) Greenhouse Grower, Climate Controller Company, Greenhouse Company
(B2G) Government Office

Strengths

Greenhouse AI-SaaS Platform Based Yield Prediction Analysis and pest disease operating system:

- Crop vegetable specification service, Horticulture smart farm growth analysis solution software and management system web/smartphone application service
 - Greenhouse environment/growth/production/distribution price data monitoring + Prediction analysis controller + Actuator control cultivation logic controller
 - Tomato/Cherry-Tomato/Paprika/Strawberry/Hot-Pepper etc production forecast, supply stability prediction, production term weather prediction, uniform size specification forecast, sugar contents forecast, growth abnormality evaluation prediction cultivation logic, Web and Android/App-store smart phone application based AI-Big Data application analysis service

- Cultivation logic of crop vegetable activity growth prediction analysis and actuator control solution for environment data for cloud AI-Platform based optimized production etc specified UI intelligent service
 - Environment control basis and production prediction model generation through the analysis of Korea Rural Department's collected data manually
 - Greenhouse specified actuator IoT control box + Sensor-IoT and complex portal gateway build-up for optimized service

- Crop activity-Distribution price-Controller monitoring and control-price suggestion management system
 - In smart greenhouse facility horticulture, vegetable ICT collection package(Lte internet router+Sensor/Actuator-IoT+gateway) help collected data in the process of collection-store-process of data specification monitoring application solution as 1st step, and, as 2nd step, help supply harvesting quality through crop specification solution and service to control actuator and predict and analyze using AI-deep learning and cultivation logic controller technology.
 - Distribution price information supply and suggestion solution and management system.

Main Item



Name Tomato Yield Prediction AI-SaaS Platform Based Horticulture AIoT Controller Solution

Feature Cloud Based Yield Prediction Cultivation Logic Controller Solution for Horticulture Crop Specification Service

Function

- Environment Control Basis Model + Yield Prediction Model Based AI-SaaS Platform Cloud Cultivation Logic Web Solution Supply
- Horticulture Actuator Control and Sensor Data Collection by Industrial gateway and AI-SaaS Platform API internet connection
- Distribution Sales Price Monitoring and Suggestion Logic Service Supply as well as Cultivation Logic Service



Greenhouse

MANNA CEA Co.,Ltd.

MANNA CEA

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- **Website** : www.mannacea.com

At a Glance

Business type	Agriculture, ICT, IoT
Established year	2013
Employee number	59
R&D Employee	11
Annual Sales	(USD) 3,820,000
Export Amount	(USD) 1,524,000
Certifications	USDA, ISO 9001, KC

Major Customers

e.g. Asia(100%), CIS, North America

To whom to supply

Middle East(50%), CIS(50%)

Strengths

1. USDA Organic Aquaponics Agriculture Tech Representative Company
2. Climate smart, Green-Tech, Food Security, Grown crops database
3. Rural Development (Regeneration) network platform
4. Over 12 Issued Patents 20 Pending (Farm tech)
5. SCP (Sustainable Consumption and Production)

Strengths

6. 30 million USD raised in Venture Capital

7. ESG (Environment, Social, Governance) Business model

Main Item



Name

ICT Aquaponics Smart Farm system Solution

Feature

Turnkey Farms & Operation Support

Function

- 82% maintenance cost Reduction (vs hydroponic)
- Possible organic fishing and farming, SCP ecosystem
- Automatic Environment Control based on Crop monitoring data



Name

Salading

Feature

Oline E-Commerce Solution

Function

- Application, Oline Homepage Service know-how
- Logistics based on Oline E-commerce
- SCP Product Design based on High-quality crop



Name

Climate-smart Growchamber Farm Solution

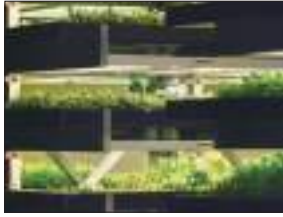
Feature

Turnkey Farms & Operation Support

Function

- Hot weather climate optimized
- Easily change crops according to demand
- Delta Temp range +/- 35 Degrees Celsius

Main Item



- Name** Vertical Farm Organic Solution
- Feature** Turnkey Farms & Operation Support, Low installation cost(vs traditional vertical)
- Function**
 - Hot and cold climate possible type
 - Efficient layout with frontal harvest, Urban farming
 - High energy efficiency with advanced (PAR range LED, Water cooled lighting for efficient HVAC, Thermally insulated grow beds)



- Name** Rural Development Projects
- Feature** Real Estate Development Projects, Rural problem solution
- Function**
 - Agri-lifestyle based on ICT Agriculture Technology
 - Future Rural Society House Vision
 - Rural community infrastructure development



- Name** Precision Farm Equipment Sales & Licensing
- Feature** IoT ICT Equipment and Farm Equipment
- Function**
 - Easy installation and Extensibility and Simple
 - No internet required and Mesh Network
 - Provides efficient and high yield, cost reduction



- Name** Cannabis Genetics
- Feature** Cannabis Precision Farm solution
- Function**
 - CBD Oil research
 - Cannabis Cultivation technology
 - Precision Farm system



Greenhouse

MCOPIA Co.,Ltd.



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- **Contact Person** : JuDong Kim
- **Title** : CEO
- **Dept.** : Development Team
- **Website** : www.mcopia.com

At a Glance

Business type	Smart Farm HW & SW
Established year	2004
Employee number	7
R&D Employee	5
Annual Sales	(USD) 500,0000
Export Amount	(USD)
Certifications	Direct Production Certification

Major Customers

America(25%), Asia(25%), Middle East(25%)

To whom to supply

(B2B) Urban Agriculture Developer, R&D Center, Distributer, Sales Partner

Strengths

1. Proven smart farm technology
 - Rural Development Administration's Smart Farm Patent technology transfer(Patent Registration No. 10-1465082 : Horticultural facility monitoring control system and method)
2. Intelligent Growth DB control technology
 - Smart farm Growth DB-based automatic control function
 - Emergency measures for high temperature, rain, wind speed
 - Speech recognition and control function

Strengths

- Remote control video check
- 3. WoT(Web of Thing) R&D technology
 - Web-based automatic control platform (WOT SCADA)
 - AI image analysis, WebRTC consulting tool
 - Own patent : DC/AC Motor Remote Position Monitoring and Control device based on electrical resistance and Power line Communication (Patent registration No. 10-1537304)
- 4. Experience in building a smart farm
 - Facility gardening(Strawberry, tomato, rose)
 - Livestock(Cow, Duck)
 - Mushroom Smart Farm
 - Smart Farm HUB System

Main Item



Name

Smart Farm System (UbiMas_Sfarm_Plant V1.0)

Feature

Smart farm environment control system based on Growth DB

Function

- Smart environment control according to the control program that defines growth conditions for each crop season
- Sensor, time-based automatic control
- Systematic nutrient solution sensor management(Nutrient solution system-cultivation bed-waste nutrient solution)
- Smartphone voice alarm



Name

Smart Farm HUB System (UbiMas_SfarmHub V1.0)

Feature

Central control and big data analysis for multiple smart farm systems

Function

- Real-time collection/analysis of crop growth information
- Growth index investigation
- Creation/distribution of Growth database (DB)
- Online video cultivation consulting service tool
- Big data analysis tool

Main Item



Name Smart Farm Educational simulator (UbiMas_SfarmEdu_SM V1.0)

Feature Growth DB-based automatic control simulation

Function

- (Control) Side window, horizontal curtain, in front of the door, behind the door, heating and cooling, humidifier, CO2 generator, nutrient solution controller, ventilation fan, flow fan, LED
- (Sensor) Internal and external temperature, humidity, CO2, illuminance, solar radiation, wind direction, wind speed, rain
- (Video) 25x zoom PTZ
- (Structure) miniature greenhouse (length 3m * width 2m * height 1.8m), nutrient solution cultivation field set



Name Smart Farm Training device for education (UbiMas_SfarmEdu_TR V1.0)

Feature Smart Farm Operation Principle Understanding Practice Device

Function

- (Control) 16-channel integrated controller, control panel, etc.
- (Sensor) Analog type and communication type sensor
- (Growth Environment Management System) Web/ Smartphone Support
- (Communication device) POE, hub, router

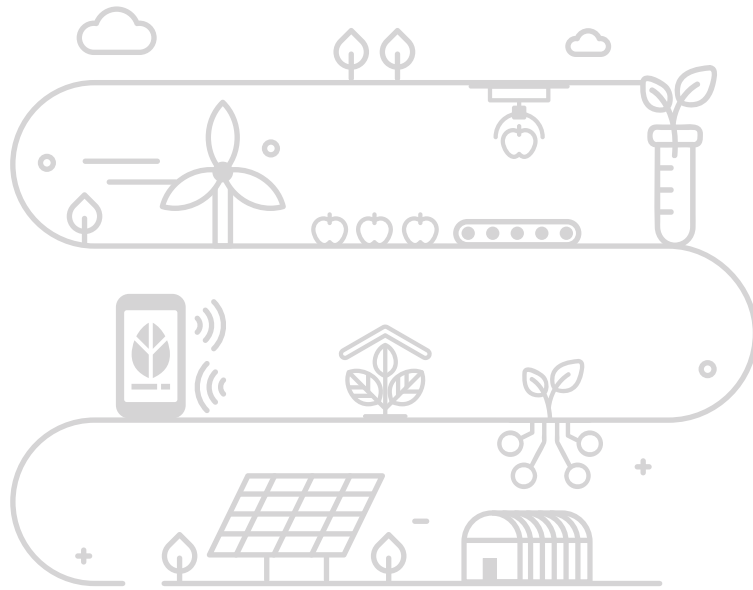


Name Plant factory type nutrient solution controller (UbiMas_SfarmPF_NS V1.0)

Feature A nutrient solution system based on a quantitative pump for sophisticated nutrient management

Function

- Recyclable nutrient solution supply based on metering pump
- Network-linked control
- Emergency stop and alarm to prevent excessive nutrient supply



Greenhouse

MIRAE COLD & HEAT Inc.



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- **Contact Person :** UYong Lee
- **Title :** CEO
- **Dept. :** Technical Department
- **Website :** blog.daum.net/miraeheat

At a Glance

Business type	Manufacturing industry
Established year	1999
Employee number	6
R&D Employee	2
Annual Sales	(USD) 700,000
Export Amount	(USD) 300,000
Certifications	ks, kc

Major Customers

America(30%), Asia(40%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

As a company specializing in environmental control equipment related to vertical farming and mushroom cultivation, we have specialized technology for air conditioning environment suitable for mushroom and plant cultivation, and we have developed smart farm technology in the field of control, especially for long periods of time, from equipment design to production, construction

Strengths

and automatic control. We are continuing to improve the quality by applying it. Currently, it is supplied to related farms and organizations through a stable system. In particular, by applying a system patent in the relevant field, we are securing competitiveness through the development of high-efficiency energy saving equipment and multifunctional smart control devices.

Main Item



Name

Integrated environmental controller

Feature

High-quality mushroom cultivation and hydroponic cultivation (vertical farm) environmental control panel

Function

- Cooling and heating output (multi-stage control, 24-hour control)
- Humidification output (sensor, time)
- Dehumidification output (sensor, time)
- Ventilation output (CO₂ sensor time)
- Lighting output (sensor, time)
- Sprinkler output (sensor, time)
- Outside air cooling and heating output (sensor, enthalpy)
- Communication function between equipment
- Smart farm function (cell phone control)
- Self-diagnosis function of breakdown
- Automatic failure notification function
- Text sending function
- And many more



Name

Integrated remote control panel

Feature

Central control of the integrated environment control panel of several equipment

Function

- A device that controls the environment controller of each room through 485 communication in one place(When growing mushrooms, the number of rooms is usually 10~30 or more, and vertical farms are also operated with 2~10)

Main Item

- Function**
- Smart farm function
 - Big DATA storage function (USB)
 - DATA graph
 - And many more



- Name** Integrated remote control
- Feature** Integrated environment controller and Cooling & Heating equipment control



- Name** CO₂ and temperature and humidity sensor
- Feature** 485 communication
- Function**
- CO₂, temperature and humidity values can be read
 - Data transmission of CO₂, temperature and humidity values



- Name** Soil temperature and humidity sensor
- Feature** 485 communication
- Function**
- Soil temperature and humidity values can be read
 - Data transmission of soil temperature and humidity values



- Name** Smart electric heater
- Feature** Hanger type (central mounting)
- Function**
- Electricity / single-phase 220V, three-phase 380V
 - Three-wire type
- Capacity / 9KW, 10KW, 12KW, 15KW, 21KW
- Weight/ 20kg
- Material / AL

Main Item

- Function** • Control / 485 communication, integrated control function

Explanation

Not dry heater

- Available in all seasons
- Giving water heater
- 5-fold safety device
- Limiting peak load and zero temperature deviation
- Mutual communication
- Cell phone control and remote control
- Individual control and integrated control possible



Name Smart electric heater

Feature Standing type (floor mounting)

- Function** • Electricity / single-phase 220V, three-phase 380V
- three-wire type
 - Capacity / 9KW, 10KW, 12KW, 15KW, 21KW
 - Weight / 20KG
 - Material / AL
 - Control / 485 communication, integrated control function

Explanation

Not dry heater

- Available in all seasons
- Giving water heater
- 5-fold safety device
- Limiting peak load and zero temperature deviation
- Mutual communication
- Cell phone control and remote control
- Individual control and integrated control possible

MS TECH Co.,Ltd.



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- **YouTube** : youtu.be/vYBj5mVZ2Zw?t=14
- **Contact Person** : SaRang Song
- **Title** : CEO
- **Dept.** : Management
- **Website** : www.poly-agron.com

At a Glance

Business type	Manufacturer of Woven Poly (Greenhouse covers)
Established year	2019
Employee number	3
R&D Employee	2
Annual Sales	(USD) 2,000,000
Export Amount	(USD) 200,000

Major Customers

North America(40%), Asia(30%), Europe(25%), Etc(5%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner; Greenhouse Installer (Greenhouse builder)

Strengths

MISOTECH provides high-performance products in various fields related to agriculture, industry, packaging materials. We have ability to develop products that meet customers' needs as quickly as possible.

Our products(AGRON, AGRON COOL, ANYTARPS) are stronger than any other products in the market.

Main Item



youtu.be/vYBj5mVZ2Zw?t=10

Name

AGRON

Feature

Lightweight, sturdy, long lasting, flexible, and easy to install for any application.

Function

- Superb tensile and tear strength due to its strong cross weaving
- Transparent woven construction naturally evens and diffused light
- Scattered light helps in photosynthesis and high uniformity



youtu.be/q62ySgXztEQ?t=13

Name

AGRON COOL

Feature

Blocks infrared rays so it reduces the temperature of the inside of greenhouse

Function

- Reinforced woven structure provides superior tensile and tearing strength
- Reduces the temperature of Greenhouse during Summer and keeps the heat inside the greenhouse during Winter



youtu.be/ICcTxplw_s0?t=13

Name

ANYTARP

Feature

Excellent material for thermal insulation

Function

- Multilayered carbon composites block 99.99% of sunlight and absorb infrared rays
- Super strong cross weaving with multifilament gives great tensile, tear, and burst strength.
- Multifilament inside of ANYTARP has great heat resistance which provides outstanding stability

NARETRENDS Inc.



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- **YouTube :** www.youtube.com/embed/srijMgEYeuE?version=2&autoplay=1
- **Contact Person :** YoungCho Yoo
- **Title :** CMO
- **Dept. :** Overseas Marketing Dept.
- **Website :** www.naretrends.com

At a Glance

Business type	Manufacturer
Established year	2013
Employee number	21
R&D Employee	11
Annual Sales	(USD) 1,525,000
Export Amount	(USD) 9,650
Certifications	ISO:9001, KC

Major Customers

CIS(70%), South East Asia(20%), Middle East(5%), Others(5%)

To whom to supply

- (B2C) Farmer
- (B2B) Distributer, System Integrator, Green house Builder
- (B2G) Government Office or Government Project Bidding company

Strengths

1. Total Solution for Precision Agriculture
2. Easy installation and operating of smart farm system
3. Simple UI and support Android/iOS
4. Providing agricultural journal
5. Providing analysis data of crops growth thru cloud server (FarmNote)

Main Item



www.youtube.com/watch?v=fcnd1vn1Ges&t=4s

Name

BANDIBURRI-IC

Feature

Integrated Automatic Environment Control System

Function

- Automatic control of greenhouse by setting optimal environment for crops
- Real time monitoring & controlling, alert thru smart phone/PC
- Easy setting & Controlling thru touch pannel
- Able to download analysis data with graph and excel format thru cloud server (FarmNote)



www.youtube.com/watch?v=3zNQAHIIVN8

Name

BANDIBURRI-SC

Feature

Single-unit Control System

Exellent expandability & compatibility, cost-effectiveness

Function

- Remote control of greenhouse
- Real time monitoring, alert thru smart phone/PC
- Able to download analysis data with graph and excel format thru cloud server (FarmNote)

NONGSHIM ENGINEERING Co.,Ltd.



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- **Contact Person** : YONGJOO, BAE
- **Title** : CEO
- **Dept.** : OVERSEAS BUSINESS TEAM
- **Website** : www.nongshimeng.com

At a Glance

Business type	FOOD ENGINEERING BUSINESS
Established year	1997
Employee number	141
R&D Employee	20
Annual Sales	(USD) 116,400,000
Export Amount	(USD) 14,644,000
Certifications	Energy, Saving Construction, Overseas construction, Radiation Certi., Electricity Certi.

Major Customers

Masan Group in Vietnam, Monde Nissin in the Philippines, Nestle in Ukraine, Dufil Prima Foods in Nigeria, Sido Muncul in Indonesia, Rolton in Russia, etc.

To whom to supply

(B2B) Farmer, Food Manufacturer who has pain for new factory / automated warehouse / Smart farming

Strengths

The only food engineering company in Korea.

Number of references in the food industry – can make customized suggestions

Have facilities and experience to produce the highest quality products
Nongshim Group has its own vertical farming with automation
(Automation modeling in place)

Main Item



Name

Vertical Farming

Feature

Design of vertical farm solution for crop safety, stable supply and quality.

Function

- Crop Screening Technology
- Cultivation technology
- Facilities and equipment technology



Name

Food Plant Engineering

Feature

Consulting & EPCM service for New Food Factory (Processing Automation)

Function

- Instant Noodle Factory
- Sauce Factory
- Other Foods (HMR, Beverage etc.)



Name

Automated Warehouse

Feature

MDPS (Multi Deep Pallet Storage)

Function

- Maximize the storage efficiency (2 times than Normal manual warehouse)
- Shuttle + Stacker crane type for faster throughput

SAMSAN Inc.



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- **Dept.** : Intl Sales Dept Manager
- **Website** : www.dryfog.co.kr

At a Glance

Business type	Manufacturing
Established year	1997
Employee number	15
R&D Employee	3
Annual Sales	(USD) 270,000
Export Amount	(USD) 243,000
Certifications	ISO9001 2015 / ISO14001

Major Customers

America(20%), Asia(50%), Middle East(10%), Others

To whom to supply

- (B2C) Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

1. Vision of company
SAMSAN INC. KOREA produces innovative PVC hose and initiative new agricultural machines continuously. After establishment of company in 1985, a variety of designs and pressure of PVC hoses and machines has been produced.
Our company pursues easy and labor-saving agriculture. Advanced and innovative technology has created high quality

Strengths

products better than the products of Japan, Germany and Italy. We, SAMSAN lead the global market.

Our high and initiative hoses have been exported to over 40 countries and we continue to develop new design and higher quality hoses. For easier and labor-saving working, we produce lower weight and higher pressure goods. Besides dryfog mist items have been developed and exported. In addition of agricultural items, industrial and urban items have been produced, too. We have ability to spot and challenge new items and markets. Considering all the experience that we have, we are very confident that the quality of our products are the best.

2. Main Items

Since 1985 high quality PVC hoses have been produced. Especially high pressure spray hose is the most popular item and sell well all around the world till now. Dryfog system(pest control, humidity control, temperature control), Tornado Fogging sprayer, Thermal and ULV fogging machines, 12K5, Easy sprayer are also our main items.

Main Item



www.youtube.com/watch?v=2haZnmvxhfo

Name

High pressure spray hose with patent

Feature

High pressure spray hose is our main item over 30 years. Compared to other companies', it has the lightest and highest quality with advanced technology in the world

In end-user's view, 3 points are highly important

• Pressure

Pressure cannot be seen, but when people use our hose, whatever purpose people use, whatever pressure(high or low) they use, whatever weather(hot or cold) they use, stable pressure will be kept up to 280 bar

• Hose weight

To keep high pressure, manufacturers all around the world make hose thicker and heavier, but we, SAMSAN INC. make hose thinner and lighter with higher pressure. It's new technology

Main Item

Feature

We are proud of our high pressure spray hose with the highest pressure and light weight that nobody can do in the world to reduce farmer's labor

• Elongation

In use, due to high water pressure, hose is very stiff and shrunk. That's why in spraying, 2~3 workers are needed to hold hose not to damage plants. BUT our hose elongation is only 0.02%. (in example, if other companies' hoses shrink about 7~13M, our hose shrink only 20cm.) Under whatever pressure, our hose stands still and calm. It's absolutely convenient to use. Besides it's easy to change design, color and outlooks with beautiful transparent outer tube. Even though it's same item, there can be various outlooks and it make differentiation



www.youtube.com/watch?v=gleAtZIPbD8

Name

AUTO mini fogging machine SSAF-5000

Feature

Easy working mini fogger for personal use with Lithium battery

- 1 hour charge
- 12 hours non-stop use
- 3 Liter chemical tank can be used for 4 hours.
- Personal control of disinfection (AUTOMATIC) : light weight and easy fogging machine for all ages



www.youtube.com/watch?v=U7AOiouZ5Gs

Name

TF-SERIES (Tornado Fogging Series)

Feature

Strong Tornado wind can spray chemicals at distance 18M + wide 5~8M at working pressure 50bar

- Tornado mist wind makes pest control easy in any direction
- Manpower can be saved at 50%, but the effect are 200% as much as before
- Wide area can be easily pest-controlled

Main Item

Feature

- No damage of weak petals, baby plants, and baby fruits
- Floating soft mist heals the fruit trees inside and outside of the trees only by one spraying
- One green house (100M) can be pest-controlled only within 2minutes
- Mist wind of Tornado fogging makes front and backside of leaves fluttered and cured



www.youtube.com/watch?v=ejgJpYF91Tk

Name

DRYFOG SYSTEM

Feature

In 2013 we jump into new field. Dryfog system is based on high pressure items that we have and it's automatic control of dryfog mist spray. It has 3 functions : pest control, humidity control, temperature control. There are many mist spray system in the market, but all of them is based on low pressure technology. Mist only can stay in the air about 1 minute, but we can make dryfog mist much smaller like cloud by using our high pressure technology. Dryfog mist can stay in the air over 15 minutes and make double effect.

• Pest control

Dryfog mist can float in the air and can reach the backside of leaves to kill germs, virus and insects

• Temperature control

Dryfog mist can drop the temperature about 4~10° C and make better condition to grow

• Humidity control

Not known much, but it's the most important fact for plant growth. By humidity control of dryfog system, hours of plant growth has been increase from 3 hours to 8 hours and harvest time has been made earlier. Dryfog system offers optimum environment for green-house plants and animals and efficiency has been certified. We are still in study and development in this area for the best

SEUNGIL ELECTRONICS Co.,Ltd.



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- **Fax.** : +82-32-682-2383
- **E-mail** : globalsales@si-tec.co.kr
- **YouTube** : www.youtube.com/user/TheSangjinbyun
- **Contact Person** : Jerry Ryu
- **Title** : CEO
- **Dept.** : Overseas Operations
- **Website** : www.si-tec.co.kr

At a Glance

Business type	HVAC & Refrigeration
Established year	1987
Employee number	30
R&D Employee	10
Annual Sales	(USD) 5,000,000
Export Amount	(USD) 500,000
Certifications	CE, ISO9001, ISO14001

Major Customers

EU(35%), Middle East(25%), CIS(20%), Asia(15%), Others

To whom to supply

(B2B) Urban Agriculture developer, Distributer, Equipment Manufacturer, System Integrator
(B2C) Farmer
(B2G) Government Office

Strengths

Based on the 30 year's manufacturing experience, Seungil Electronics has provided finest quality products to HVAC field.
Smart Farm has a lot common points with HVAC on controlling environment.
We can support our accumulated technology to Smart Farm industry as well.

Main Item



- Name** Temperature & Humidity Sensor (RHX Series)
- Feature** High Density sensor with RS485 Modbus communication
- Function**
- -45 ~ 125°C / 0 ~ 100% Range
 - RS485 Modbus RTU Communication
 - Support Dew point Temperature
 - Room / Duct Mount / Dust Short Type



- Name** Smart Hybrid DDC (SHDDC Series)
- Feature** Compact Modular type DDC
- Function**
- Modular Expansion I/O
 - Ladder Diagram Programming
 - Support RS485 Modbus RTU Communication



- Name** BLDC Compressor Driver (INB Series)
- Feature** Compressor Frequency Driver for BLDC type
- Function**
- Various Protection Functions for Compressor
 - Energy Efficiency Operation
 - Support RS485 Modbus RTU Communication

SGT Co.,Ltd.



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- **YouTube :** www.youtube.com/channel/UC1YKxrXf2ZXqGtc2qQ4j82g
- **Contact Person :** Hwan We
- **Title :** CEO
- **Dept. :** Management
- **Website :** www.sgtju.com

At a Glance

Business type	Manufacturing
Established year	2008
Employee number	6
R&D Employee	3
Annual Sales	(USD)
Export Amount	(USD)
Certifications	RoHS (AK 50394435 0001)

Major Customers

Asia(25%), Central Asia(25%), Middle East(25%), EU(25%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

Our company manufactures and sells greenhouses where crops can be grown without being affected by various environments. In addition to greenhouses, we are producing various agricultural products such as drip irrigation and agricultural heaters.

Main Item



www.youtube.com/watch?v=wh3moJdANiw&t=24s

- Name** Truss Greenhouse
- Feature** Multipurpose Wide Truss Greenhouse
- Function**
- A wide and pleasant space provided by the free-standing construction
 - Heavy snow and storm-resistant structures
 - It makes easy for anyone to grow crops by automated facilities
 - Multi-purpose using for farming, residential, sports facilities and poultry farms



www.youtube.com/watch?v=aiemxMMBsTc&list=PL2N8yHyKUOCAM4Li66gh3f6hjtBTnkKfU

- Name** AGREVO
- Feature** Patented Next Generation Drip-Irrigation
- Function**
- Pressure compensation type
 - No need to install filter
 - Steadily water supplying from beginning to end
 - No blockages with muddy water



- Name** Agricultural heater
- Feature** Smart Complex Hot Air Heater
- Function**
- Adopting the highest STS heat exchanger
 - High thermal efficiency, semi-permanent use, and reduced maintenance costs
 - Capable of both ventilation and warm air

SHINAN GREEN-TECH Co.,Ltd.



- **President** : SeungHo Jang
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- **E-mail** : oksg@okshinan.com
- **YouTube** : www.youtube.com/watch?v=yMwoZQun2KA&feature=emb_title
- **Contact Person** : AYeong Mun
- **Title** : CEO
- **Dept.** : Management Team
- **Website** : www.okshinan.com

At a Glance

Business type	Manufacturing Business
Established year	1987
Employee number	5
R&D Employee	2
Annual Sales	(USD) 1,800,000
Export Amount	(USD) 100,000
Certifications	CE, PSE

Major Customers

America(25%), Asia(25%), EU(25%), Others

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

As a company that mainly sells air dehumidifiers, air mixers, and air circulation fans, it is resistant to deformation by adopting IP55 rated motor, ABS material and SUS304 material, and possesses the technology of the only ceiling type dehumidifier in Korea. Based on these technologies, it is a company that steadily records export performance to various countries such as Germany, Uzbekistan, and Japan.

Main Item


Name

Air Dehumidification

Feature

It offers integrated control for greenhouse environment by air circulation method from temperature· humidity sensor inside a greenhouse.

Function

- Disposal of harmful factors (condensation, moist, mist, non-woven fabric, etc.)
- Temperature· humidity automatic control
- Producing air circulation of air-circulation fan (Environment improvement, relieving temperature difference, production of farm products of evenly good quality)


Name

Air Mixer

Feature

Decrease temperature difference between the upper and lower part, and save energy through its air circulation function inside of a greenhouse

Function

- Promotion of carbon dioxide assimilation (photosynthesis)
- Sound and stable growth of leaves with a weak breeze
- Efficiency improvement of summer crops and promotion of growth by ventilation function


Name

Air Circulation Fan

Feature

Reduces temperature difference by ventilation, enhances photosynthesis and improves yield and quality

Function

- Relieving temperature difference inside a greenhouse
- Equalizing growth
- Temperature difference control system by temperature sensor

Shinhan A-TEC Co.,Ltd.



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- **YouTube** : youtu.be/tLz_sFycfN8
- **Contact Person** : JaeWook Jang
- **Title** : President
- **Dept.** : Research Institute
- **Website** : www.sh1000.co.kr

At a Glance

Business type	Greenhouse Control System
Established year	1995
Employee number	20
R&D Employee	5
Annual Sales	(USD) 7,200,000
Export Amount	(USD) 1,500,000

Major Customers

Asia(70%), America(10%), Africa(10%), Others(10%)

To whom to supply

Farmer, Distributer, Sales Partner

Strengths

We are managing our own research institute that develops products through joint research with other research institutes. In addition, we improve the quality by producing most of the products ourselves and importing and using high-quality materials from Netherlands, Israel and other countries.

Main Item



Name AQUA-S

Feature Attached 10.2" touch screen

Function

- Maximum 6 Groups independent control
- 4 types of different control (time, interval, external signal and solar radiation)
- Connect with computer and control



Name GK-3000

Feature Screen to watch settings and value and keyboard

Function

- Control irrigation machine in remote
- Time setting and control according to regional sunrise and sunset is possible
- When PC shuts down, it will keep and work with its settings



Name Recycling system

Feature Attached LCD screen and keyboard

Function

- Improve drastically the quality of the irrigation water
- Disinfection with UV lamp with ultra filter
- System optimization design according to installation environment

SOHA TECH Co.,Ltd.



- **President** : DeugJoong Yoon
- **Tel.** : +82-2-978-0461
- **Fax.** : +82-2-978-0463
- **E-mail** : ydj@soha-tech.com
- **Contact Person** : Sooyoung Choi
- **Title** : Presidnet
- **Dept.** : International Sales
- **Website** : www.soha-tech.com/eng

At a Glance

Business type	Manufacturer, Trading, others
Established year	2005
Employee number	18
R&D Employee	4
Annual Sales	(USD) 1,600,000
Export Amount	(USD) 200,000
Certifications	CE, RoHS

Major Customers

USA(60%), Netherlands(12%), China(8%), Japan(19%), Others(1%)

To whom to supply

(B2B) SI company(sensor), Trading company(electronic product), Partnership company for Agency which associated with relevent knowledge

Strengths

1. CO₂, Temperature, Humidity sensor's liability and stability
- Japan customer(OMRON, Panasonic, IHI etc), USA(Growlink), Netherlands etc. have been supplied from 2014 with CO₂ sensor
2. Streamline process and minimize cost for mushroom growing with focus design
3. Adequate communication with customer for competence to usage product

Main Item



Name SH-NDC (Non-brand)

Feature NDIR type of CO₂ sensor module
From 0~3,000ppm to Max 25% ppm selective

Function

- Analog, Digital output at once
- Tolerance ±60ppm
- Max 80% of humidity operational with special trims
- Various size for each application of product



Name SH-VT260 (Non-brand)

Feature Integrated transmitter of CO₂/Temp/Humidity sensors
Operational in Heavy humidity condition

Function

- Our own brand of CO₂ sensor module
- Over 90% of humidity operational
- Analog, Digital output at once
- Available maintenance



Name UNi-Farm (SH-MV510)

Feature Optimize for mushroom growing
Available standardize with various operation mode

Function

- Sensors/ Schedule/ Repeat operation mode
- Handy control with Touch screen
- Max 6 electrical spots for each equipment ON/OFF
- Programmable safety range for error

SUHWOOMS Co.,Ltd.



- **President** : JeongRan Park
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- **Contact Person** : Saera Lim
- **Title** : CEO
- **Dept.** : Business Management Team
- **Website** : www.suhwooms.com

At a Glance

Business type	ICT Smart Farm
Established year	2020
Employee number	14
R&D Employee	14
Annual Sales	(USD) 2,374,894
Export Amount	(USD)
Certifications	Holds 3 related patents

Major Customers

Vietnam, China Etc... Asian countries

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer

Strengths

Agriculture is the future. Want to develop economy?
Then do Agriculture.
That is the moto of our company.
We have been devoting ourselves to providing more convenient functions to farmers.
Since establish the company, we are create movable containers of shiitake mushroom, greenhouse carbon heating controller and joined the insect breeding system. Through of that we can analysis

Strengths

of domestic agricultural market that we can recognize the need for effective smart farm.(Holds 3 related patents)

From the beginning of farming to harvesting of crops, farmers need to be all-round entertainer. It's actually hard thing to do their ownelves. So, we make a smart farm package system that can help farmers to control their own greenhouse.

From the life cycle of the crop to the harvest and sale of the crop, Smart Farm In Service(SFIS) and Farmin Smart Box(FSB) will supporting farmers.

Main Item



Name

Farmin Smart Box

Feature

Integrated environment control logic function

Function

- Supporting operation function via of the original greenhouse system controller
- Possible to use all network
- Provides AI complex environment proportional control function through linkage of big data



Name

Farmin SF(Smart Farm) Service

Feature

Crop life cycle management service

Function

- Control and alarm settings
- Analysis
- Artificial intelligence learning for proportional control of complex environment

SUNNONG Co.,Ltd.



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- **Contact Person** : JeongEun Kim
- **Title** : CEO
- **Dept.** : General Affairs Team
- **Website** : www.snong.co.kr

At a Glance

Business type	Agricultural Products Manufacturing
Established year	2005
Employee number	9
R&D Employee	1
Annual Sales	(USD)
Export Amount	(USD)

Major Customers

Asia(100%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

SUNNONG Co., Ltd is constantly striving to lead the future of agriculture through the production and distribution of various products such as Roof ventilator, Flow fan, Cooling fan, Hydraulic unmanned sprayer, Stationary unmanned sprayer, Low-pressure type unmanned sprayer, Rotary(left and right)unmanned sprayer, Rail sprayer, Harvest carrier, Carrier ring, etc.

Strengths

In addition, we are introducing innovative products on the market that solve the problems of domestic agriculture by reducing labor shortages, cutting down the cost of production, etc. with our unrivaled technical skills based on continuous product development and supplementation.

Main Item



youtu.be/XMTKaEx6Tqo

Name Flow fan

Feature Internal circulation/P.P

Function

Model Name (Motor)	Motor Specifications	Standards	Fan	Material	Weight	Air Volume	Wind Speed	Noise	Application Area
SN-14 (IC-14430SNB)	AC 220V,50/60Hz,73w,4P, 1650rpm 2uF 450VAC	4600*5200 *390mm	3FAN 400mm	Composite PP	8.7kg	24cmm	5.1m/s	60dB	132 to 165m ³ (per one unit)
SN-14-1 (IC-8428SNA)	AC 220V,50/60Hz 60w,4P,1680rpm 2.0uF 450VAC	3400*3900 *290mm	4FAN 320mm	Composite PP	4kg	11cmm	4.6m/s	50dB	66 to 99m ³ (per one unit)
SN-14-2 (IS-87420VHA)	AC 220V,50/60Hz 39w,4P,1580rpm	2700*3000 *220mm	5FAN 230mm	Composite PP	2.3kg	4.3cmm	3.6m/s	45dB	33 to 66m ³ (per one unit)



Name Flow fan

Feature Internal circulation/AI

Function

Model Name (Motor)	Motor Specifications	Standards	Fan	Material	Weight	Air Volume	Wind Speed	Noise	Application Area
SN-20-1 (IC-14430SNB)	AC 220V,50/60Hz,50w,4P, 1610rpm 1.5uF 450VAC	3000*3500 *260mm	4FAN 280mm	Aluminium	2.86kg	20.2cmm	5.1m/s	50dB	66 to 99m ³ (per one unit)
SN-20-2 (IC-8428SNA)	AC 220V,50/60Hz 37w,5P,1650rpm 1.2uF 450VAC	2500*3000 *220mm	5FAN 226mm	Aluminium	2.22kg	10.8cmm	4.0m/s	50dB	33 to 66m ³ (per one unit)

Main Item



youtu.be/IFtz4vSvPR8

- Name** Asia Ball F1
- Feature** Hybrid onion with good yield and storage
- Function**
 - High yielding
 - Strong vigor and quality
 - Fast Maturity

Model Name	Power(V)	Nozzle Angle	Injection Distance(M)	Control Box	Hose	Filter
sn-12	220 380	360	1.2~1.5	Single phase/Three phase	8mm HDPE PIPE	Suction and Discharge



Greenhouse

SYSCO Co.,Ltd.



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- **Fax.** : +82-10-2090-8991
- **E-mail** : sysco-1004@hanmail.net
- **Contact Person** : Yanny Um
- **Title** : President
- **Dept.** : Overseas Dep.
- **Website** : Renewering

At a Glance

Business type	Manufacturing
Established year	2008
Employee number	10
R&D Employee	2
Annual Sales	(USD) 2,258,355
Export Amount	(USD) 90,334
Certifications	KS

Major Customers

Middle Asia, Europe, China, Etc.

To whom to supply

Distributor & Agency

Strengths

Made by Stainless steal & Anti corrosion

Main Item



Name Air-Fan

Feature Air flows smoothly in greenhouses

- Function**
- Make air flow naturally in greenhouses
 - The proper of the air volume and wind speed
 - Furtherance of the optimal growth environment



Name Angle -Fan

Feature Make air flows up and down

- Function**
- Make air flow naturally in greenhouses
 - The proper of the air volume and wind speed
 - Furtherance of the optimal growth environment



Name Heater -Fan

Feature Make air warmmer

- Function**
- Make warm air flow naturally in greenhouses
 - The proper of the air volume and wind speed
 - Make the heating cost lower

UBN Corporation



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- **YouTube :** www.youtube.com/watch?v=E-mnGMVUSmQ
- **Contact Person :** EunKi Ahn
- **Title :** CEO
- **Dept. :** SmartFarm Dept.
- **Website :** www.ubncorp.kr

At a Glance

Business type	Software Dev.
Established year	2008
Employee number	16
R&D Employee	12
Annual Sales	(USD) 1,400,000
Export Amount	(USD)
Certifications	KC (Korea Certification)

Major Customers

America(25%), Asia(50%), EU(25%), Others

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

UBN Corp is a software development company that specializes in electronic commerce, IoT, and USN fields with the System Integration (SI) business centered on public institutions since its inception in 2008. In 2013, we developed a smart farm system, studied and developed for more than five years, and demonstrated and distributed farm, making it easy to configure and expand.

Strengths

We released Smart Farm FarmLink v.0 based on the Internet of things.

Through continuous research and development, we have been upgrading our smart farm products every year to achieve stability and technological innovation in not only Korea but also Japan, China, Southeast Asia and India.

Main Item



www.youtube.com/watch?v=E-mnGMVUSmQ

Name

FarmLink v3.0

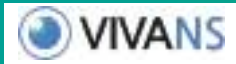
Feature

The smart farm integration solution in UBN Corp, "Farmlink 3.0.0," consists of a radio-controlled actuator, a wireless sensor powered by its own battery, and a customized smart farm. Smart devices enable the operation and monitoring of desired functions anytime, anywhere, and provide services for optimal growth environment by providing customized automation according to farming techniques

Function

- **Individual Control Through Distributed Processing**
Section-based or greenhouse-based control system for both collective-type and single-type greenhouses
- **Real Cloud Technology**
It is possible to use and control data from anywhere at any time as long as connected to the Internet
- **Wireless Sensing/Wireless Control**
Thanks to the system configuration based on wireless communication, you can install or transport the system freely and expand or modify the controller easily

VIVANS Co.,Ltd.



- **President** : Young Kim
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- **Fax.** : +82-2-571-3174
- **E-mail** : youngkim@vivans.net
- **Contact Person** : Jiyeon Ahn
- **Title** : CEO
- **Dept.** : Marketing Department
- **Website** : www.vivans.net

At a Glance

Business type	AI / Robotics / Web, Mobile
Established year	2007
Employee number	26
R&D Employee	21
Annual Sales	(USD) 2,534,425
Export Amount	(USD) 3383
Certifications	<ul style="list-style-type: none">• Japan Patent (2016)• GS Certificate(Lv.1)(2016.09.19) Category: System Software(Argos v3.5)• NEP(New technology) Certificate (2012.09.28) Wired/wireless integrated web performance analysis and management tool

Major Customers

Asia(50%), Middle East(25%), Others(25%)

To whom to supply

(B2C) Farmhouse
(B2B) Regional Agricultural Technology Center,
Agricultural Corporation
(B2G) Nation, Local governments

Strengths

Brand Name & Logo



We develop software that can properly maintain and operate crop environments remotely (PC, Mobile) and automatically by incorporating information and communication technology (ICT) into green houses, containers, and fields.

By creating an optimal growing environment based on data on crop growth and environmental information, you can expect to improve the productivity and quality of agricultural products even with less labor/energy/nutrient input than before.

Main Item



Name

Its OutdoorFarm

Feature

This product will contribute to productivity improvement by applying ICT convergence such as production and management distribution for outdoor produce

Function

- Provides automatic irrigation control logic considering weather
- Applied to more than 200 places nationwide
- Development of farm sensor-based data collection and Open API
- Development of irrigation control algorithm for supplying optimal irrigation volume - Application of optimal irrigation model for each crop period
- Implementation of crop growth journal / data analysis service development and consulting support

Main Item



Name Its GreenhouseFarm

Feature This product provides optimal greenhouse cultivation technology with highly-efficient greenhouse control function and complex environment control function

Function

- Provides smart greenhouse functions such as strawberries, tomatoes, and paprika
- Platform-based service provided
- User friendly environment
- Customized environmental control configuration from small to large greenhouse
- Creation of optimal growing environment based on data on crop growth information and environmental information
- Linkable to various external systems and capable of convenient farming journal creation function
- Provides optimal parameter values based on machine learning environment and history data



Name Its CityFarm

Feature This product contributes to the improvement of agricultural productivity in regions where vegetable cultivation is difficult due to the climate

Function

- Can be installed anywhere
- Cultivation possible without farming knowledge due to complete control of the growing environment
- Accepts various container farm types by using irrigation nutrient solution control system and adding individual control logic for each area
- Functional crops, flowers, special crops can be cultivated. Integrated environment control module installed-(Co2, temperature and humidity, automatic adjustment)
- Accepts various types of container farms by accommodating various nutrient solutions and adding individual control logic for each area



Greenhouse

Wett Energy Co.,Ltd.



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- **Contact Person** : HyunHee Jang
- **Title** : CEO
- **Dept.** : Export
- **Website** : www.wet-energy.co.kr

At a Glance

Business type	Production's Sales
Established year	2015
Employee number	5
R&D Employee	3
Annual Sales	(USD) 500,000
Export Amount	(USD) 200,000
Certifications	ISO, KTL, CE

Major Customers

America , Asia , Europe

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

A 30-year-old company that uses corrosion-free, scale-free special heat exchangers to increase thermal efficiency and produce wet heaters (20 years) that guarantee long-term failure-free life.

Main Item



[www.youtube.com/
watch?v=E-mnGMVUSmQ](http://www.youtube.com/watch?v=E-mnGMVUSmQ)

- Name** WT-015
- Feature** 15KW-12900kcal/hr
- Function**
 - Wet heater
 - Thermal efficiency 98%
 - Corrosion-free, scale-free
 - Simple installation



[www.youtube.com/
watch?v=E-mnGMVUSmQ](http://www.youtube.com/watch?v=E-mnGMVUSmQ)

- Name** WT-003 WT-005
- Feature** 3KW-2580kcal/hr, 5KW-4300kcal/hr
- Function**
 - Wet heater-Moveable unit
 - Thermal efficiency 98%
 - Corrosion-free, scale-free
 - Simple installation

Won Automatic Co.,Ltd.



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- **E-mail** : wonlds9090@daum.net
- **Website** : www.wonauto.com

At a Glance

Business type	Construction
Established year	2010
Employee number	8
R&D Employee	
Annual Sales	(USD) 970,000
Export Amount	(USD) 700,000

Major Customers

Doesn't matter where and who will be our customers.

To whom to supply

Farmer, Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

1. Excellent heating efficiency
2. Reducing heating costs
3. All projects related to vinyl greenhouses are possible, saving on construction costs
4. Smart farm
5. Excellent Maintenance

Main Item



- Name** Multilayer Curtain
- Feature** Multilayer Curtain, Kwonchi type(Rolling)
- Function**
 - Interval minimization
 - Thicker curtain
 - Rolling curtain to maximize the period of use



- Name** Farmsys
- Feature** Imbaded computer system
- Function**
 - Controlling installed system in Greenhouse by Phone
 - Gathering specific information of circumstance of GH
 - Making possible for analyzing by saved information



- Name** ICT Combined Environment Control System
- Feature** Imbaded computer, ICT Sensors
- Function**
 - Automatic Environmental Control System
 - Control as the environment changes
 - Making possible for analyzing by saved information



- Name** House Motors
- Feature** Vinyl motors, Curtain motors
- Function**
 - Solid design
 - Powerful motor force
 - Delicated control

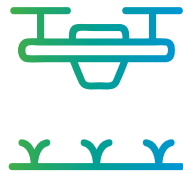


- Name** Automatic Nutrient supply system
- Feature** Injection Master
- Function**
 - Accurate supply of fluid
 - Controlling the amount of depends on environment
 - Delicated control

02

Open field





BIOLINE. Inc.
Catalonix Inc.
Dae-sung ENG Inc.
GREENMAX Co.,Ltd.
Helper Robotech Co.,Ltd.
Hyoshin Mechatronics Co.,Ltd.
IREIS Co.,Ltd.
NEOFARM Inc.
Nextsquare Inc.
SAVE Co.,Ltd.
Saltware Co.,Ltd.
Two-Y Co.,Ltd.
UNG Technology Co.,Ltd.
USEM Instruments Inc.

BIOLINE. Inc.



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- **Contact Person** : GaYoung Lee
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- **Website** : www.ebioline.net

At a Glance

Business type	Smart Farm
Established year	2018
Employee number	5
R&D Employee	3
Annual Sales	(USD)
Export Amount	(USD)
Certifications	patent in korea

Major Customers

America(25%), Asia(25%), Middle East(25%), Others

To whom to supply

Agriculture company

Strengths

It is suitable for soil environment within a greenhouse environment, and installation is simple and convenient, and IoT operation is easy with unmanned operation and automation.

Main Item



Name

Floating Pest Control Machine

Feature

This is the world's first unmanned floating pest control system that is not based on a spraying method, but on an eco-friendly vapor volatilization method

Function

- Use of dedicated pesticide(Gurumi), 200cc/660cm², only 5 to 10 minutes of the pest
- Volatility : More than 1M spreading distance
- Reserving operating times in advance is possible
- Easy to transport and simple to operate



Name

Wireless irrigation control system (unmanned, automatic)

Feature

Wireless soil sensor/ automatic irrigation control

Function

- Manual/automatic selection function for water supply
- Wireless communication between soil sensor and control box
- Manual/automatic control of the linked pump
- Atmospheric temperature display function
- Display of automatic operation time
- Data-based water supply/cut-off setting using soil moisture
- Setting water supply interval
- Setting water supply and liquid fertilizer input time
- Display of daily cumulative time

Catalonix Inc.



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- **Contact Person :** SeongHun Kim
- **Title :** CEO
- **Dept. :** Sales
- **Website :** www.catalonix.com

At a Glance

Business type	Agricultural and livestock equipment, software development
Established year	2017
Employee number	8
R&D Employee	5
Annual Sales	(USD) 250,000
Export Amount	(USD)

Major Customers

America(25%), Asia(25%), Middle East(25%), Others

To whom to supply

(B2B) Urban Agriculture developer, Smartcity
(B2G) Government Office, city management corporation

Strengths

Technologically advanced local optical sensing - In-house algorithms for machine-learning and image analysis - cloud-based multispectral analysis platform.

Main Item



Name

Multispectral analysis system for forestry and vegetation

Feature

Optical sensing to automatically calculate vegetations indices to provide proper measure to maintain sustainable forest and vegetation

Function

- In-situ monitoring of forest / vegetation
- Real-time analysis of vegetation healthiness
- Machine-learning based prediction of water and nutrient deficit



Name

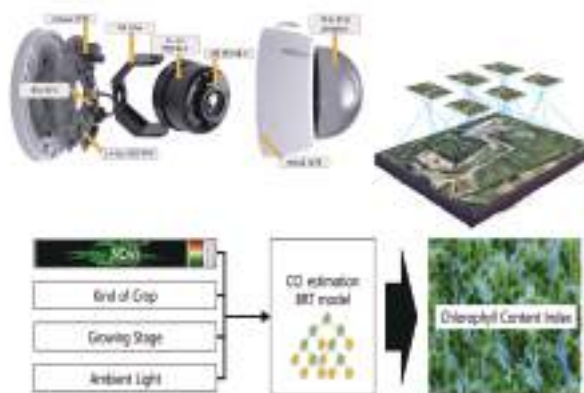
Multispectral camera system

Feature

Optical sensing to provide proper measure to maintain crops and promote annual yield of field

Function

- Indoor/outdoor applicable optical sensing system
- Handheld / fixed flexibility
- Cloud-based analysis platform provides initial indicators for crop illness and real-time healthiness



Dae-sung ENG Inc.



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- Website : xn--114-oh3mv18c.com/index.htm

At a Glance

Business type	Agricultural Machinery, Electronic Controller Manufacturing
Established year	2013
Employee number	5
R&D Employee	2
Annual Sales	(USD) 400,000
Export Amount	(USD) 10,000

Major Customers

Europe, Central Asia, Southeast Asia

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner, Wholesale distributors

Strengths

1. Customized development and manufacturing
2. Product stability and user convenience through well-experienced and long time know-how

Main Item



Name

Agricultural dryer controller

Feature

Voice Guidance

Function

- Temperature control
- Voice guidance service
- Automatic agricultural product drying system applied



Name

DC Motor speed controller

Function

- DC Motor speed control from 0 to 1.5kw
- Applied to electric carriage, electric carriage, electric lift



Name

Automatic Battery charger

Function

- Battery charger for automobiles and electric vehicles
- Compact size and light weight

GREENMAX Co.,Ltd.



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- **YouTube :** www.youtube.com/watch?v=Qh_mjQ9U_po
- **Contact Person :** SeongWon Kang
- **Title :** President
- **Dept. :** R&D Department
- **Website :** www.greenmax.co.kr

At a Glance

Business type	Manufacturing/agricultural machinery
Established year	1990
Employee number	38
R&D Employee	6
Annual Sales	(USD) 8,100,000
Export Amount	(USD) 228,000
Certifications	CE Certified 5case, ISO9001, ISO14001, Inobiz

Major Customers

China, Vietnam, Mongolia

To whom to supply

a prospective buyer
(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

Corporate and product strengths
Expanding Smart Farm Investment Infrastructure at the Government Level
Promote the supply of Korean smart farms and train professionals
A plan to expand the application of smart greenhouses, livestock cultivation, and land by 2020

Strengths

A plan to strengthen on-site support and foster smart farm equipment industry as an export industry

Main Item



Name

An urban enclosed plant factory

Feature

Unmanned automated urban plant factory utilizing big data

Function

- Hydroponic cultivation of 30 kinds of vegetables in the Vertical Tower rack
- Integrated control of the cultivation environment (temperature, humidity, Co₂, positive fluid, air conditioning, irrigation water)
- IoT and PC Web-based remote monitoring of the growing environment



Name

Mobile plant factory cultivation Platform

Feature

40ft Container Mobile Smart Farm

Function

- Efficient use of workspace and increased productivity with vertical rack
- Aquatic cultivation, pest control, No herbicide required organic certification is possible
- Cultural environment IoT remote control and a history of cultivation and environmental data save pc data

Helper Robotech Co.,Ltd.



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- **Facebook** : : www.facebook.com/helperrobotech
- **Contact Person** : Jeremy H.J. Park
- **Title** : President
- **Dept.** : Overseas Marketing Team
- **Website** : www.hr24.co.kr

At a Glance

Business type	Manufacturing
Established year	2012
Employee number	17
R&D Employee	5
Annual Sales	(USD) 2,500,000
Export Amount	(USD) 200,000
Certifications	ISO 9001, 14001, CE

Major Customers

America(25%), Asia(40%), Middle-East(25%), Europe_Russia(10%)

To whom to supply

(B2C) Farmer [Watermelon, Tomato Farmer]
(B2B) R&D center (University & National R&D center)
(B2G) Ministry of Agricultural or sub-agency

Strengths

1. More than 25 years of experience in Agricultural business
2. Market share 99% for Nursery Farm in South Korea
3. Only one company which manufacturing "Seeding machine" & "Grafting Robot" in South Korea

Main Item



www.youtube.com/watch?v=PiPEXw0Oga8&t=4s

Name

Seeding Machine (Drum type)

Feature

Over 95% of seeding successful rate
Big size seeding such as Gourd, Pumpkin can possible

Function

- 2 times speed against the existing automation seeding system
- Developed as optimal model for specially onion seeding
- Speed of seeding is more than 160,000 seeds per hour



www.youtube.com/watch?v=ZqrtTeDuE8M&feature=youtu.be

Name

Ultra Precision Grafting Robot

Feature

"95% of grafting successful rate

Function

- Production : 1 Hr/ 800 Units for Grafting plants
- Super Precision : controlled 1/100mm
- 95% of grafting successful rate
- 2 species(watermelon&tomato) available in one machine



www.youtube.com/watch?v=snivGnq8utU&t=4s

Name

Paper Pot Manufacturing Machine

Feature

Part 1) Manufacturing Paper Pot
Part 2) Auto Loader of Paper Pot

Function

- Production : 1 hr / 3,600 Units to producing the paper pot
- Good Aeration (4sides always in touch with air)
- Good to Root Growth
- Good Drainage

Hyoshin Mechatronics Co.,Ltd.



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At a Glance

Business type	Manufacturing
Established year	1992
Employee number	50
R&D Employee	5
Annual Sales	(USD) 80,000
Export Amount	(USD) 5,000
Certifications	ISO9001, ISO14001, CE, KCs, ATEX

Major Customers

Korea(90%), China(2%), South East Asia(2%), Uzbekistan(1%)

To whom to supply

Users & distributors in Process Automation Industry and Smart farm builder

Strengths

1. Reliable quality & performance
2. Competitive price
3. Fast lead time
4. Customizable support

Main Item


Name

Solenoid Valve for Water irrigation

Feature

Automatically operated valve by an electromagnetic force from the solenoid coil

Function

- Application : Irrigation
- Fluid : Agricultural water, underground water
- Type : 2 way normally closed Plastic valve
- Size : 20A, 25A, 40A, 50A
- Working pressure : 0.5 to 5 kg/cm²
- Working temperature : 0 to 50°C
- Supply voltage : 24V AC (Std), 24V DC(option)
- Wiring : Two lead wires
- Flow control function is available


Name

Solenoid Valve for Nutrient solution

Feature

Automatically operated valve by an electromagnetic force from the solenoid coil

Function

- Application : Nutrient supply machine
- Fluid : Nutrient solution
- Type : 2 way normally closed Plastic valve
- Size : 15A
- Working pressure : 0.5 to 5 kg/cm²
- Working temperature : 0 to 50°C
- Supply voltage : 24V AC (Std), 24V DC(option)
- Wiring : DIN lamp connector


Name

Hydraulic Control Valve (Reducing valve)

Feature

Hydraulically operated, diaphragm actuated control valve to reduce the pressure in the pipe

Function

- Application : Irrigation
- Fluid : Water
- Type : 2 way normally closed Plastic valve
- Size : 40A, 50A
- Max. pressure : 5 kg/cm², 10 kg/cm²
- Working temperature : 0 to 50°C

Main Item



- Name** Level Control Valve
- Feature** Maintaining full level of the tank by controlling water supply with horizontal float
- Function**
- Application : Water tank, Reservoir
 - Fluid : Water
 - Type : 2 way normally closed Plastic valve
 - Size : 40A, 50A
 - Max. pressure : 5 kg/cm², 10 kg/cm²
 - Working temperature : 0 to 50°C



- Name** Filter
- Feature** Filtering out sand, gravel, fine impurities, while using solenoid valve
- Function**
- Application : Irrigation
 - Fluid : Water
 - Filter : Screen, Disc
 - Type : Y, T, Cross, Centrifugal type
 - Size : 20A, 25A, 32A, 40A, 50A, 65A, 80A, 100A
 - Max. pressure: 10 kg/cm²



- Name** Air or Motor operated valve
- Feature** Automatically operated valve by pneumatic pressure from compressor or electric motor
- Function**
- Wide application range
 - Fluid : water, oil, air, gas, steam, chemical
 - Size : 8A to 200A
 - Valve type : Ball valve, Butterfly valve, Globe valve
 - Connection : PT threaded or JIS, ANSI flanged
 - Process : 10 bar / 100°C (Std)
20 bar / 250°C (Option)

Main Item



Name Accessories

- Function**
- Ball tap
 - Plastic flow meter
 - Venturi



Name Solenoid valve for Boiler

Feature Automatically operated valve by an electromagnetic force from the solenoid coil

- Function**
- Wide application range
 - Fluid : water, oil, air, gas, steam
 - Size : 8A to 50A
 - Connection : PT threaded or JIS, ANSI flanged
 - Process : 10 bar / 100°C (Std)
20 bar / 180°C (Option)

IREIS Co.,Ltd.



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- **Dept.** : Management Team
- **Website** : www.ireis.co.kr

At a Glance

Business type	Plant Root Manufacturing
Established year	2010
Employee number	10
R&D Employee	4
Annual Sales	(USD) 2,331,302.11
Export Amount	(USD)
Certifications	KC, Nine patent registrations, GS

Major Customers

Eastern Europe(50%), Western Europe(30%), Asia(20%)

To whom to supply

- (B2C) Green House Farmer
- (B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
- (B2G) Government Office

Strengths

1. Possess the measurement technology and products of the root zone of facility cultivated crops
2. Own precision measurement sensor technology
3. Cloud-based service operation and management
4. Holds the largest business performance in Korea

Main Item



Name

RMFarm
(Medium water content measurement device)

Feature

Provision of information on water content in the rootzone (weight, nutrient solution)
Simple and convenient UI (can search previous day/ daily/weekly, monthly, period)
Real-time provision of various measurement information (graph, data)
Provision of precise environmental information (temperature/humidity sensor applied with air circulation fans)
Patent registration (10-1404518), KC certification
Medium size (900mm, 1,000mm, 1,200mm)
The first warranty issuance and price list registration in Korea(Korea Agricultural Machinery Industry Cooperative)
Selected as government-funded agricultural machinery, Subject to ICT convergence expansion business plan

Function

Medium water content measurement device

- Amount of watering
- Amount of drainage
- Weight
- Medium temperature
- Temperature
- Humidity
- EC
- pH



Name

FarmingON
(Growth environment measuring device)

Feature

Wireless transfer of measured data through IoT LTE modem
Real-time remote monitoring with smart phone app and PC Web
Equipped with super-precise sensor
Alarming function based on the setting of highest/ lowest value of environmental information

Main Item

Feature Built-in air circulation fan for the precise sensor information
Daily/weekly/monthly data graph provision
Easy installation in desired locations
Provision of DIF information
Simple look design
KC certified and patent registered product (10-1644071)

Function IoT-based remote monitoring system for plant growth environment

- Temperature
- Humidity
- CO₂
- Medium temperature



Name FarmingON2

Feature Basic composition : 1 main body + 1 probe sensor
Additional Configuration : Up to 3 probe sensors can be connected
Main : Temperature, Humidity, CO₂, Light intensity, and Drainage pH
Probe Sensor : Temperature/ Humidity/EC measurement of medium
Real-time measurement information monitoring with FarmingON2 app

Function Smart agricultural environment system that can identify the growth environment and rootzone condition of crops under protected facility

- Temperature
- Humidity
- CO₂
- EC
- Light Intensity
- Drainage pH(Optional)
- Medium Temperature
- Medium Humidity



Open field

NEOFARM Inc.



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- **YouTube :**youtu.be/M2VpMpiBINw
- **Contact Person :** JaeHong Park
- **Title :** CEO
- **Dept. :** R&D Center
- **Website :** neofarm.biz

At a Glance

Business type	Agriculture/Farming System
Established year	2016
Employee number	5
R&D Employee	2
Annual Sales	(USD) 146,000
Export Amount	(USD) 27,000
Certifications	Certificate of Software Quality Level1

Major Customers

Asia(30%), Eastern Europe(30%), Middle East(30%), Others

To whom to supply

(B2C) Farmer, prospective farmer, Facility greenhouse operator
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office, university research facilities, National Agricultural Research Institute

Strengths

Neo Farm implements future agriculture by realizing an intelligent smart farm based on data.
Understand agriculture and crops, implement technology for farmers, and create an agricultural environment.

Main Item



www.youtube.be/M2VpMpiBINw

Name

Farming system software : NCS-PRO

Feature

Analysis of crop growth, greenhouse environment management, and liquid management software

Function

- Screen composition to check photosynthesis activities at a glance
- Visualization Enhanced real-time information display, 1-minute record display
- Differentiation by measurement item by enlarging graph, changing color, changing point
- It is easy to check the change of the temperature of leaf, fruit, and temperature at sunrise



www.youtube.be/M2VpMpiBINw

Name

Farming system : Crop growth monitoring system

Feature

Of the greenhouse and crop growth information and data information environment. Implement optimal growth of greenhouse conditions in conjunction with NCS-PRO

Function

- Product composition: Growbag weight measuring device (module), leaf temperature (fruit temperature) sensor, Growbag weight sensor, drain weight sensor, communication device
- Measuring the weight of badges and multiples using road cells
- Applicable and installed to various greenhouse appliances



www.youtube.be/M2VpMpiBINw

Name

Farming system : NCS-NUTRIENT

Feature

NCS-NUTRIENT is a device that supplies and controls the nutrients of greenhouse crops

Function

- Built-in display and control software, it can be used without a PC
- In conjunction with NCS-PRO, the amniotic fluid content management based on crop growth information can be managed (PC controlled)
- Automatic water purification management function for each crop growth process

Nextsquare Inc.



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- **Dept. :** Business Management
- **Website :** www.nextsq.com

At a Glance

Business type	Manufacturing
Established year	2013
Employee number	46
R&D Employee	11
Annual Sales	(USD) 9,618,359.98
Export Amount	(USD) 144,000
Certifications	ISO 9001:2015, ISO 14001:2015

Major Customers

LG, LS IS, GS Caltex, Hanwha QCells, KSTAR

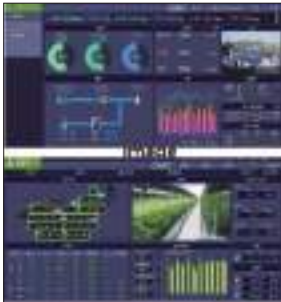
To whom to supply

System development Company, Solution supply Partner, Reseller Partner

Strengths

1. Technical evaluation Excellent company certification
2. 90% of employees are RnD personnel
3. Technology fusion company with numerous references
4. Growth rate of 40% or more since 2017

Main Item



Name

NS Factory Smartfarm solution

Feature

- No time and place restrictions, on-site monitoring and control possible
- Stable additional income generation
- Build the optimal solution at the lowest cost

Function

- Real-time monitoring and control
 - Real-time monitoring of field sensor values and operational status
 - Automatic control of sprinklers and sloping curtains according to the set control conditions.
 - Manual remote control
- Automatic notification service (Status Board/SMS/Messenger)
 - An alarm is transferred to detect an abnormality based on real-time on-site information
 - Cold damage / intense heat and other equipment through local weather information cooperation
 - More than that, event alarms on site
 - Notification of on-site sensor replacement cycle and periodic inspections
 - We will send you an email of the regular operation report
- Analysis
 - The correlation between the quality inspection result value of the sample and the growth condition of the sample is also analyzed.
 - Optimal for analysis of production volume per unit area and required cost Analysis of growth conditions

Main Item



Name Microgrid ESS

Feature It can be expected to reduce the operating costs associated with the operation ratio of diesel generators of 10% or less.

Minimizing the operation of diesel generators can reduce carbon dioxide and provide an environmentally friendly system.

When switching power supply sources, stable cooperative operation can be performed without an instantaneous power failure.

Cloud-based remote monitoring and control allows you to use the system without the need for on-site specialists.

- Function**
- Stable cooperative operation of ESS and diesel generator
 - When switching power supply sources (renewable energy, diesel generator), stable power supply is possible without instantaneous power failure
 - Minimize generator operation with optimal control according to load fluctuation
 - Reduce carbon dioxide footprint and fuel cos
 - Remote monitoring control
 - Quickly and accurately respond to abnormal cloud detection and cause determination remotely and remotely based on cloud-based integrated control



Open field

SAVE Co.,Ltd.



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- **Title** : CEO
- **Dept.** : Sales Department
- **Website** : www.savedrip.co.kr

At a Glance

Business type	Agriculture Materials
Established year	2013
Employee number	7
R&D Employee	1
Annual Sales	(USD) 2,331,302.11
Export Amount	(USD) 20,000
Certifications	KTR-CC / MSCB-156-5644

Major Customers

Asia, Europe, America, Others

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

Save Co., Ltd. was established in 2013 and focused on developing new products with interest in eco-friendly farming materials. We have developed a drip irrigation hose which has no aid equipment and supplied it to both domestic and overseas.

Main Item



Name

SAVE

Feature

Drip irrigation hose which has no aid equipment

Function

- The manufacturing system is simple because there are no additional aids inside the drip irrigation hose
- Eco-friendly products that can be recycled in a single material
- Light and miniaturized product with no aids
- Easy to produce (interval, flow rate)



Saltware Co.,Ltd.



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- **Contact Person :** SungHee Lee
- **Title :** CEO
- **Dept. :** New Business Department
- **Website :** www.saltware.co.kr

At a Glance

Business type	Computer H/W, S/W, Smartfarm
Established year	2003
Employee number	100
R&D Employee	70
Annual Sales	(USD) 28,000,000
Export Amount	(USD) 200,000
Certifications	ISO 90001, ISO 14001

Major Customers

Middle East(50%), Asia(25%), Africa(25%)

To whom to supply

(B2G) Agriculture Government Office
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2C) Farmer

Strengths

1. Technical Research of SmartFarm for 10 years
2. Environment Control Technology of Desert Weather

Main Item



- Name** Container Type Seedling Machine
- Feature** Specialized Seedling Technology for Vegetable
- Function**
- Save 30% of time for Seedling
 - Fast Production after Plant
 - Remote Monitoring and Control



- Name** Desert Greenhouse
- Feature** Greenhouse Control at Desert Area
- Function**
- Greenhouse Environment Control at Desert Area
 - Greenhouse Control Based on BlgData



- Name** Environment Control System
- Feature** Control Various Environment Features
- Function**
- Environment Control Based on Temperature, Humidity and CO₂
 - Remote Monitoring and Control



- Name** Plant Growth LED Lamp
- Feature** Plant Growth Period LED Lamp
- Function**
- Seedling LED Lamp
 - Cultivation LED Lamp
 - Customized LED Lamp Design and Production



- Name** Environment Senses
- Feature** Temperature, Humidity and CO₂ Senses
- Function**
- Integrated Multi-Sense Module
 - Private and Secure Wireless Protocol

Two-Y Co.,Ltd.



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- **Contact Person** : YeonChul Shin
- **Title** : CEO
- **Dept.** : Manager
- **Website** : www.twoytech.com

At a Glance

Business type	Manufacturing
Established year	2017
Employee number	3
R&D Employee	2
Annual Sales	(USD) 300,000 (2018) / 270,000 (2019)
Export Amount	(USD) 7,000 (2018) / 40,000 (2019)
Certifications	Four wings Patent(1), Design(7), PCT(1), Trade Mark(1), Australia Patent(1) Applied nations(USA/EU/China/India/Japan) Weed Killer Utility Model(1), Design(1), PCT(1), KC Certificate(1), Applied nations(USA/Japan /China)

Major Customers

America(30%), Asean(20%), Japan(20%), Europe(20%), Others

To whom to supply

(B2B) Garden supplies Distributer, Sales Partner
(B2G) Agricultural materials manager, Government Office

Strengths

1. Founded in 2017, is a manufacturing company located in Busan, Korea
2. We prioritize customer satisfaction by developing creative and customer-oriented products based on various experiences acquired by large companies and small companies
3. Build creative development and sales network with 'Yes' thinking and 'Yearning' efforts, and promote entry into the global market based on intellectual property rights
4. We developed the world's first 4-strings Bump & Feed trimmer head in the 4 trillion won market for trimmer heads for lawn trimmers, and developed a unique and efficient rotary electric tiller for weed removal in agricultural land. We are promoting not only domestic but also global markets, and connecting them with achievements

Main Item



Name

Four wings

Feature

Four strings Bump & Feed Trimmer head-Screw mount type

Function

- Four wings is a product that developed the world's first 4-strings nylon cutter with an automatic-withdrawal method from a 2-strings nylon cutter
- A product that overcomes the demerit of existing nylon cutters, which are weak in cutting power with most of the two-Strings products, and the cutting power is doubled compared to the existing product, by doubling cuts per rotations and arranging strings rows in a row
- Although it is a complex 4-line product, is a product with improved ease of use by adopting an automatic strings pull-out method and a '+' through type that is easy to refill strings

Main Item



Name Weed Killer

Feature Horizontal Rotatory Tiller for Brush cutter

- Function**
- Weed-Killer A tiller blade product that is used by attaching to a lawn trimmer
 - Using the rapid rotation power of the lawn trimmer, it scratch on the ground and remove the roots of weeds rapidly
 - With such work characteristics, it has a high working speed and high working efficiency compared to manual work and is designed to have an optimized angle for the operator's comfortable work



Name Four wings Pro-Light

Feature Four strings Bump & Feed Trimmer head-Screw mount type / Universal Type

- Function**
- Four wings Pro-light is a product that optimizes the use of the world's first 4-strings Bump & Feed nylon cutter and improves compatibility with various brush cutters around the world
 - Maximizes the advantages of red king, such as strong cutting power, work continuity and easy to refill strings, and the convenience of use through optimization of the built-in strings length and strings take-out height and product weight reduction
 - Universal and screw mount type that can be installed with various mowers around the world, and it can be used regardless of the rotation direction of the machine



Open field

UNG Technology Co.,Ltd.



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- **Dept.** : Marketing
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At a Glance

Business type	manufacturing
Established year	2008
Employee number	8
R&D Employee	3
Annual Sales	(USD) 600,000
Export Amount	(USD) 70,000
Certifications	CE, FDA, ISO9001:2015, ISO14001:2015, KC

Major Customers

Asia(100%)

To whom to supply

Distributor related to Water treatment system

Strengths

1. Simple Pipe Line Structure for Durability
2. Lower Power Consumption
3. US patent registered and CE, ISO, FDA certificated product.
4. Water treatment by High Electrostatic Field

Main Item



Name

UNG Water Treatment System

Feature

Model # : GOF01, Pipe size : 50A
100~240VAC(input), 50/60Hz, 15W

Function

- Reduce use of fertilizer
- Effective growth (Larger separation force, Larger capillary action)
- Reduce use of chemicals, Virus/Bacteria sterilization

USEM Instruments Inc.



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At a Glance

Business type	IoT & Smart-Farming Technology
Established year	2002
Employee number	6
R&D Employee	3
Annual Sales	(USD) 500,000
Export Amount	(USD) 0
Certifications	ISO9001, KC

Major Customers

Middle East, Russia, India, Others

To whom to supply

Sales Partner, Distributer, Urban Argiculture developer

Strengths

1. All products are based on crowding
2. Display the forecasting of insect and disease on Greenhouse
3. Irrigation system operated complete remote sensing

Main Item



www.youtube.com/watch?v=oYvacE8UNvM

- Name** Forecasting system of disease and insect
- Feature** Measuring by sensors and display forecasting data on smartphone
- Function**
- Predicts the occurrence of anthrax, gray mold, white powder and bayonet
 - Accuracy above 95%
 - Above 90% of the prevention effect



www.youtube.com/watch?v=p9MhujDNhtY

- Name** Irrigation system
- Feature** Automatic Irrigation control by using Tensiometer sensor
- Function**
- Remote control and settings by Smart phone
 - The soil moisture measurement uses a Tensiometer
 - One pump and 10 valves operated with flow fertilizer
 - Setting the start point and the time of irrigation.
 - Graph display and download data



- Name** Humi sesnor
- Feature** Temperature and humidity sensor
- Function**
- $-30\sim 70^{\circ}\text{C}, \pm 0.3^{\circ}\text{C}$ / $0\sim 100\%\text{RH}$



- Name** Soil temperature sensor
- Feature** Temperature sensor
Stainless steel Rod
- Function**
- $-30\sim 70^{\circ}\text{C}, \pm 0.3^{\circ}\text{C}$

Main Item



- Name** Tensionmeter sensor (soil moisture sensor)
- Feature** Soil moisture measurement
- Function** • 0~100kPa



- Name** Leaf wetness sensor
- Feature** Sensor for disease forecasting



- Name** CO₂ sensor
- Feature** CO₂ measurement of green-house
- Function** • 0~2000ppm



- Name** EC sensor
- Feature** EC measurement of water or soil
- Function** • 0~10 mm/s



- Name** Quantum sensor
- Feature** Measurement quantum light in green-house
- Function** • 0~2000 umol



Open field

03

Livestock





DAEDONGTECH Inc.
DAWOON Co.,Ltd.
Ecobiznet Inc.
EGGTEC Co.,Ltd.
Emission Control Standard Co.,Ltd.
Enputech Co.,Ltd.
GUNJI Co.,Ltd.
Hohyun Food & Consulting Co.,Ltd.
Hwang Geum TTS Co.,Ltd.
KM Co.,Ltd.
SAMWOO Co.,Ltd.
ThinkforBI Inc.
uLikeKorea Co.,Inc.
Wise Big Co.,Ltd.

DAEDONGTECH Inc.



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- **YouTube** : www.youtube.com/channel/UCxJ5PQ5rnwDUqtDgxoiYmxQ
- **Contact Person** : JungHea Choi
- **Title** : Representative
- **Dept.** : Affiliated Research Institute
- **Website** : ddtech.co.kr

At a Glance

Business type	Manufacture of Farming Machines for Livestock Smart Farms
Established year	2000
Employee number	37
R&D Employee	6
Annual Sales	(USD) 5,571,811.65 (2019)
Export Amount	(USD) 35,162 (2019)
Certifications	New Excellent Technology

Major Customers

China(30%), Southeast Asia(40%), Latin America(30%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

1. Leader of Global Livestock Machine to Practice Livestock Farmer Making Project
2. The prompt and accurate service and thorough quality assurance are the pride of Daedong Tech
3. TMR Feed and Probiotics Production Facility
4. Solid useful microorganism production facilities Professional enterprise

Strengths

5. Livestock Machine ICT IOT Smart Farm Professional enterprise
6. Korea's first company to develop and produce farmers' safety as a top priority
7. The world's first TMR feed mixer with side window attachment was released

Main Item



Name TMR feed mixer& ICT Application

- Feature**
- Livestock feed formula
 - Can be manufactured with fixed type (M) and rail type (R) fire type (F)
 - Self-contained feeder, Vehicle mount type feeder,
 - Tractor·Forklift·Skid-loder attachment type
 - ICT Application real time monitoring and remote control

- Function**
- Model name: DDK - TM820/ 23/ 27/ 30(M/R/F)
 - HP : High efficiency motor 50/ 60/ 75HP 4P
 - Work method : 2 auger cutting / Mixing method
 - Features :
 - ① Obtained the first New Excellent Technology certification in Korea
 - Side window type TMR Feed mixer
 - ② 8 patents related to TMR feed mixer
 - The livestock feedstuff a mixer in assorted feed baseplate construction (Registration of patent: 10-0999822)
 - APPARATUS FOR STRIPPING BALE IN FEEDING HOPPER OF FEED MIXERS (Registration of patent: 10-1175535)
 - The assorted feed machine a safety device (Registration of patent: 10-1067591)
 - The TMR assorted feed machine a liner possess the wings screw (Registration of patent: 10-1449122)
 - FEED MIXER WITH A WEDGE LOCK STURCTURED SIDE WINDOW (Registration of patent: 10-1798823)

Main Item

Function

- FEED MIXER WITH A SIDE WINDOW
(Registration of patent: 10-1682862)
- Side Window Switching Unit of TMR Feed Mixer
(Registration of patent: 10-2039560)
- Feed mixing machine with side windows of
Apgu-dong method
(Registration of patent: 10-2122157)

③ 3-year free service



Name

Feed microbial fermentation mixer& ICT Application

Feature

- Demonstrates the best performance in the mixing of byproducts such as rice bran, manganese, etc. with probiotics and by-product
- Designed and manufactured with easy structure for everyone
- Reduction of feed cost due to increased feed efficiency in fermented feed (30~50%)
- Prevention of livestock diseases such as diarrhea, such as calves, chicks, pigs, goats, ducks, and deer
- Improving the quality of livestock products and improving productivity (10~25%)
- Decrease of odor through reduction of fecal moisture and accelerated fermentation
- Unlike antibiotics, it does not remain in livestock products, ensuring the safety of livestock products.

Function

- Automatic operation from mixing to fermentation in one operation
microbial fermentation mixer Characteristic(DDK-800F Series)
- Completely automatic process from fermentation and mixer one-time operation
- Boiler system that does not use direct heat but boiler with water (it offers the best condition for fermentation because there is little temperature deviation)
- Registered patent for feed mixer equipped with heating means by water temperature (No. 10-0766719)



Main Item

- Function**
- Automatic timer and blower fan for temperature and humidity control
 - Optimized mixing function by applying customized paddle shape structure developed by our own research institute according to structure conditions and minimizing load
 - Registration of patent for a half-moon double paddle shape structure
 - Special inlet and outlet made by pneumatic cylinder (DDK-825F or more)
 - Supporting fermentation strain inspection and formulation consulting



Name Feed feeder& ICT Application

- Feature**
- Easy operation, dry / wet feed Bi-directional Perfect exhaust, control emissions!
 - The best Feed feeder

- Function**
- Battery 8V adopted, feed feeder driven
 - Feed feeder Main conveyor / Discharge conveyor, Driving part can be controlled and the speed can be controlled, so that it is easy for the user (user) to work
 - With BDI, it is easy to check A / S and diagnosis of error due to display of error code when checking the residual amount of battery, product failure
 - The use of car wheels, the highest safety in Korea
 - Adoption of universal joint is perfect for noise reduction of driving part as well as warping between two axes, minimizing power loss and realizing stable and powerful driving part
 - By adopting the gear reducer and the integrated motor type geared motor, unnecessary parts are reduced and the cost of maintenance is reduced drastically
 - Operation Lamp mounting(2EA), Easy to operate at nighttime driving and driving



Main Item

Function

- Loading space of feed, comparisons of other companies Biggest specification in Korea
- It enables the belt conveyor to be pivoted laterally when feeding, ensuring the convenience of traveling and feeding
- Adoption of drive AC motor, excellent maneuverability, secure stable running with torque upward, suitable for use in domestic topographical land
- Applying side brakes for vehicles to ensure stability during parking



Name

HEATCALL

Feature

SYSTEM FOR DETECTING ESTRUS COW
(Detecting the estrus of the females through the detection of the real time activity amount and the rising value by the integration of the acceleration and the tilt sensor, it is possible to prevent the estrus period and predict the fertilization period, and the fertility rate can be expected to be increased)



Function

- Customized estrus detection by farmhouse
 - Customized heat detection technology that reflects individual characteristics and farm environment
 - The user can directly modify the activity value and the value of the action value by the individual object by the PC program
- Economical semi-permanent product
 - Real-time check and replacement of battery power of necklace transmitter
 - Three years of battery replacement, semi-permanent product life reduces farm costs
- Utilize patented technology
 - National Institute of Animal Science "Cattle behavioral type estrus detection system(Registration of patent: 10-1491774)"
 - Utilize patented technology

Main Item

Function

- Same as the National Institute of Animal Science "Hanwool system"
 - Same PC program system as National Institute of Animal Science "Hanwool system"
 - Enhancement of user convenience and continual development of domestic data technology
- 92.45% hitting the detection of heat!
 - High accuracy and performance

DAWOON Co.,Ltd.



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- **Contact Person** : YoungKyoung Choi
- **Title** : The leader in livestock Automation
- **Dept.** : CEO
- **Website** : www.dawoon.com

At a Glance

Business type	Agricultural and livestock equipment, software development
Established year	2014
Employee number	21
R&D Employee	5
Annual Sales	(USD) 2,331,302.11
Export Amount	(USD)

Major Customers

Farm(55%), City hall(35%), Others

To whom to supply

Hyosung Precision, Jinyoung Steel, Solar machine

Strengths

1. Leading company in animal science and advanced technology
2. Technology-centered enterprises that occupy 80% of domestic automatic feeding rate
3. Companies that worry about the technical difficulties of consumers (farmers) together
4. Companies contributing to farmer's profits through animal science

Main Item


Name

TMR Robot Feeder

Feature

An unmanned level robot which can go to the mixer and filled itself, and then go to the farm and feeding

Function

- Computer-based operation management and wireless communication
- Built-in battery for maximum mobility and reliability
- Accurate loadcell used
- Human detectors and multiple safety devices
- With installed rails, it is possible to feed up to 4 facility
- Additive supply(option)
- Detachable parts for internal repair and cleaning


Name

Dairy Cattle Automatic Feeder

Feature

Built-in Electronic Scale is just basic From Liquid Feeder to Microbe Feed

Function

- Solved lightning shock problem by using wireless communication
- Free exchange of RFID when it is exhausted
- Web-based monitoring(option)
- Fix noise and stolen issues by using cup type hopper
- Safe devices / Stainless manger
- Optical feed residue sensor


Name

Robot Calf Feeder

Feature

Automatically diluent substitute robot which feedsto calf by each object amount

Function

- Transparent Cup type hopper
- Development of feed quantity detection sensor
- More robust feed tank
- Stainless structured trough

Main Item



- Name** Milking room Automatic Feeder
- Feature** Comfortable milking environment with automatic Feeding system for intelligent milking
- Function**
- Easy choice of feed quality
 - 100gram slow feeding
 - Customized feeding matched milking speed
 - Automatic feeding when object are entered
 - Batch feed



- Name** Horse Automatic Feeder
- Feature** Automatic feeding system for promotes horse health and macimizes feed efficiency
- Function**
- Feeding to race horse and hackney
 - This system control the amount feeds, and it adjust time of feeding
 - Through this procedure, the horse becomes health ier, and farmers can maximize feeding efficiency.
 - This product can hold feeds when is applied shock and vibration
 - It is operated by automatic control unit(microprocessor), so it can fully control feeding time and supply amount



- Name** Swine/Sow Automatic Feeding system
- Feature** State-of-the-art sows feeding system for animal welfare law, feed cost reduction and healthy sows production
- Function**
- Remote connection support
 - Object identification tag
 - Water and feed can be supplied at the same time
 - Object protection
 - Open type peggery structure
 - Text messaging service
 - Automatic feeding according to pig's age and weight
 - Increase sow moving and rate of pregnancy

Main Item



- Name** Heat detector for cattle
- Feature** Joint development of animal husbandry school RF type Heat Detector
- Function**
- Multilingual support
 - Record of signs of Heat
 - Rf communication
 - Cattle only
 - Web/mobile use



- Name** An indicator of sexual excitement starting time for cattle
- Function**
- The Best Low price
 - Detect Rise time for Cattle
 - Available 4-5 times



- Name** Feed intake monitor
- Function**
- Equipment for animal research
 - Forage intake survey system
 - Feed intake monitor



- Name** Metabolism examination stall
- Feature** To check the metabolic status of cattle, it provides a space to stay for cattles one by one, so that individual inspections possible such as ingestion, urine and stools
- Function**
- Feed intake monitor
 - Water intake monitor
 - Division of slurry and urine

Main Item



- Name** Automatic Fan Controller
- Feature** 5-6 Fan available Various functions
- Function**
- Phase control method
 - Only Single phase 110,220
 - Temp Control, Time Control, reserb Control, User Control
 - Use Safety device
 - Integrated system integration



- Name** Environment monitoring for ICT
- Feature** Environment information can be monitored in real
- Function**
- Sensor network for LORA solution
 - Precise monitoring of temperature and humidity
 - Automatic control of ventilation system
 - Environmental information Web server record
 - Realize ideal environmental control



- Name** Feed Tank Feed Level Checking System
- Function**
- Feed Tank Feed Level Check System Using
 - Wireless Communication Technology
 - Web/Mobile Alarm



- Name** Main Item19 Mist sprayer
- Feature** ICT-based Mist spray system provides optimal temperature, humidity and sterilizing control
- Function**
- Automatic additive injection
 - humidity and temp balancing
 - Residues remove function
 - Optimum construction

Main Item

**Name**

Quantitative Dispenser

Feature

It supplies disinfectant to the disinfection device in a quantitative way

Function

- Accurate supply available
- Backflow-resistant pump
- High-strength tube
- Tube status can be checked with transparent indicator
- Can be used Vehicle disinfectant and Mist spray system

Ecobiznet Inc.



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- **Dept.** : Oversea Marketing
- **Website** : www.ecobiznet.com

At a Glance

Business type	Manufacturer
Established year	2000
Employee number	19
R&D Employee	8
Annual Sales	(USD) 340,474
Export Amount	(USD) 17,922,221
Certifications	ISO9001

Major Customers

North America(10%), Asia(70%), Oceania(20%)

To whom to supply

1. Government-related organizations or research institutes for agriculture
2. Large-scale farms with cooperative unions
3. Manufacturer or distributor who deal with organic agricultural materials (especially eco-friendly microbial products such as eco-friendly bio fertilizers, soil conditioners, feed, feed additives, etc. in agriculture, livestock, and fisheries)

Strengths

1. Microorganism cultivation technique R&D
2. Microbe-based, organic, wastewater treatment R&D
3. Bespoke microorganism development
4. Support group training to increasing the understanding and effective use of microorganisms on-site

Main Item



Name

Microbial culture system

Feature

The microbial culture system is a system that enables effective microorganisms to be cultivated to achieve the effects of eco-friendly organic fertilizers, bio pesticides, feed additives, and environmental treatment by applying useful microorganisms to agricultural, livestock, fisheries, and environmental fields



Function

Agriculture

- Reduction of fertilizer and agricultural pesticides
- Soil improvement
- Prevention of crop disease
- Increasing of crop yields and quality improvement
- Promotion of compost decomposition

Livestock

- Reduction in the use of feed and antibiotics
- Prevention of harmful insects and disease
- Enhancement of nutrition and immunity

Aquaculture

- Improvement of fish color and quality
- Strengthening of nutrition and immunity
- Increasing of survival rate
- Purification of water quality

Environment

- Decomposing of organic matter
- Purification of water quality
- Removal of odor
- Treatment of excrement and recycling as a liquid fertilizer



EGGTEC Co.,Ltd.



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- **Title** : CEO
- **Dept.** : Overseas Sales
- **Website** : www.eggtec.com

At a Glance

Business type	MANUFACTURER
Established year	1986
Employee number	30
R&D Employee	5
Annual Sales	(USD) 3,500,000
Export Amount	(USD) 1,600,000
Certifications	CE, GERMANY CERT

Major Customers

Asia(95%), Europe and Africa(2%), Russia(1%)

To whom to supply

(B2C) Farmer, Egg whole sales
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

EGGTEC Corp. has been leading the development of Korean poultry industry for about 30years with the innovative technology and grown up as a central grader-related industry. We accomplished the specialization and advancement of products by securing productivity and reliability through the consistent innovation and

Strengths

development of technology, and enhancing new global future in poultry industry field.

Main Item


Name

B70K/ B60K/ B50K/ B35K/ B30K

Feature

Bucket type sorting device which selects each egg data and transmits it to the main computer and then Image safely places the selected egg on the egg tray in a quantified and sequential process

Function

- Grading and packing eggs on weight and/or defects
- Convenient operation, module system best for adaptability, economical, maintenance worry-free, easy for moderate layout


Name

Mini grader 20K and EMG12K

Feature

Designed for small size farms, these models can be easily installed and operated in a small space

Function

- The sorting speed for CG20K and EMG12K is respectively 20,000egg/h and 12,000egg/h
- Combined with a mini washer and dryer, the set makes it perfect for more hygienic and an efficient production
- Its configuration makes it easier for the user to operate and maintain without labour


Name

Eggtec Washing and Drying Machine

Feature

Egg washing and drying system designed with stainless steel frame, round eggs pushing bar, hand-made brushes and warm air blower

Function

- Wash away foreign materials on the eggs by means of brushes and lukewarm water

Emission Control Standard Co.,Ltd.



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- **Contact Person** : Ethan Koh
- **Title** : President
- **Dept.** : Strategy Planning Office
- **Website** : www.emissioncs.com

At a Glance

Business type	Manufacturing
Established year	2016
Employee number	10
R&D Employee	5
Annual Sales	(USD)
Export Amount	(USD)
Certifications	ISO9001 / 14001

Major Customers

America(20%), Asia(20%), China(20%), Europe(20%), India(20%), Others

To whom to supply

(B2C) Farmer (Especially Barn owners, Livestock)
(B2B) Agribusiness Company
(B2G) Government Office

Strengths

Our device (Odor Reduction Device / Air Purifier) is not Ozonizer.
Our device sucks odor and pollutant and emits pure air. Suction speed is more than 150km/h.

Main Item



Name

Barn Odor Reduction Device

Feature

For 330m³

Function

- No cleaning required
- 470W x 290H x 590L / 0.080m³ / 20kg
- Available for both ventilation system and inside of the farm
- Ozone Free (Less than baseline)

Enputech Co.,Ltd.



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- **Contact Person :** HaeYeon Cho
- **Title :**
- **Dept. :** Sales
- **Website :** www.enputech.com

At a Glance

Business type	Manufacture
Established year	2002
Employee number	20
R&D Employee	6
Annual Sales	(USD) 4,500,000
Export Amount	(USD) 400,000
Certifications	ISO

Major Customers

USA, Japan

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

Since 2002, only sterilizers have been made, so various sterilization methods can be applied. In Korea, the viechle sterilization facility has obtained new technology certification, and it is developed in cooperation with the Ministry of Agriculture , so the technology of all products is high.

Main Item



www.youtube.com/watch?v=rq06T2VwFbo

Name

Viechle Sterilizer

Feature

Complete sterilization using HOCL, ultraviolet rays, and ozone

Function

- Powerful cleaning of organic matter on wheels with a washer
- Spray sterilization with hypochlorous acid
- UV-C sterilize



Name

HOCL Electrolyzed water disinfectant

Feature

Eco-friendly

Function

- Can generate 240-1440 liters per minute having Foot-and-mouth disease, Ai, African swine fever report
- Eco-friendly disinfectant that returns to water after 1week
- Veterinary medical device licensed product

GUNJI Co.,Ltd.



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- **YouTube :** www.youtube.com/watch?v=Kc7ldt42pXU&t=1s
- **Contact Person :** Heejung Suh
- **Title :** CEO
- **Dept. :** Finance
- **Website :** www.gunjikorea.com

At a Glance

Business type	Small business(Manufacturing)
Established year	1995
Employee number	5
R&D Employee	1
Annual Sales	(USD) 3,000
Export Amount	(USD) 100
Certifications	CE

Major Customers

Japan(30%), Southeast Asia(50%), Kazakhstan(10%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

GUNJI Co., Ltd., since established in 1990, has been concentrating its primary efforts on the competitive technical specifications as well as the advanced and automated livestock machineries while pursuing advancement of the livestock industry.

Main Item



Name

High Flooring System

Feature

Separation between manure and residing area

Function

- The poultry is raised on the plastic slat
- The manure drops to the bottom and discharged out by manure removal system. → Increase productivity
- The fresh (cold) air from outside is mixed with upper (warm) air, prevent temperature change in sudden



Name

Broiler Pan feeder

Feature

Supplies feed through the outlet on the side and on the bottom of the middle unit

Function

- Supplies feed through the outlet on the side of the middle unit
- Supplies feed through the outlet on the bottom of the middle unit

Hohyun Food & Consulting Co.,Ltd.



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- **Dept.** : International Development
- **Website** : www.hohyun.co.kr

At a Glance

Business type	Livestock Farming Consulting, Development Big Data Platform for Livestock Farming
Established year	2009
Employee number	37
R&D Employee	6
Annual Sales	(USD) 3,107,634
Export Amount	(USD)
Certifications	Certification of Agricultural Management Consulting Company, Program Registration Letter

Major Customers

Asia(China 50%, VietNam 30%), Europe(20%)

To whom to supply

Swine Farms(Breeding more than 2k), Companies Related to Livestock Industry, Vendors and Suppliers etc

Strengths

1. Built Big Data Platform for Livestock Farming
(The only ALL-IN ONE Solution in South Korea)
2. The longest Period selected As a Consulting Company by Government for 5 Years (Since 2016)

Strengths

3. Have More Than 100 Specialized Internal&External Consultants (39 for Swine/19 for Poultry/16 for Dairy/26 for Korean Cattle Experts)

Main Item



Name

Dairy Big Data Platform (S/W)

Feature

Useful to Farmers, Consultants, ICT Companies etc.
Built Data Networks with 102 of IOT Products From 62 Companies

Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc.
Resolving Limitation of Space-time by Cloud Based

Function

- Enhancement of Operational Capability for Heat Detection by Parity, Activity, Ruminating Status
- By Analysing Activity Data, Able to Forecasting Disease and Treating
- Creating Milking Performance Prediction Model By Analysing Correlation with Estrus Intensity, Mating Count, THI(Temperature-Humidity Index) etc for Milking Records
- Detailed Specification Management By Analysing Cows' Data
- Reduction of Mating Count by Anticipating The Right Time For Mating Based on The Estrus Management of Each Cow



Name

Swine Big Data Platform (S/W)

Feature

Useful to Farmers, Consultants, ICT Companies etc.
Built Data Networks with 102 of IOT Products From 62 Companies

Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc.
Resolving Limitation of Space-time by Cloud Based

Function

- Able to Draw Feeding Program by a Pig By Parity, Number of Lactating Piglets, BCS, Amount of Drinking

Main Item

Function

- Able to Monitor Environment in The Barn and Enhancement of Feed Intake by Analysing Temperature and Humidity Data from Environment Sensors
- Enhancement of Wean Rate by Forecasting Disease and Early Treating by Way of Analysis Status of Disease Outbreak
- Enhancement of Wean Rate by Managing Data of Sows` Mortality/Culling, Weaned Piglets Count, Weaned Piglets Weight, Marketted Grade
- Able to Compare and Analysis by Drawing Net Profit and Farm`s Average Performance Based on Feed Cost, Labor Cost and Piglet Sales



Name

Poultry Big Data Platform (SW)

Feature

Useful to Farmers, Consultants, ICT Companies etc.
Built Data Networks with 102 of IOT Products From 62 Companies
Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc.
Resolving Limitation of Space-time by Cloud Based

Function

- Enhancement of Production Index and Egg Production Index in Way of Data Management Education by age in days
- Enhancement of Feed Efficiency in Hot Summer by Analysing THI(Temperature-Humidity Index) in Henhouse
- Able to Draw Ideal Feed and Feed Program in Way of Comparison Analysis of Temperature, Humidity, Feed Intake, Weight Grows etc
- Draw Setting Environment to Minimize Mortality in Each Henhouse Bases of Comparison Analysis of In/Outside Environmental Data
- Assist in Establishing Operation Strategy by Drawing Clear Logic Based on Cost Benefit Analysis Module



Livestock

Hwang Geum TTS Co.,Ltd.



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- **E-mail :** tts@hgts.com
- **Website :** www.hgts.com

At a Glance

Business type	Manufacturing
Established year	2015
Employee number	12
R&D Employee	3
Annual Sales	(USD) 3,291,792 (2019)
Export Amount	(USD)
Certifications	ISO9001, ISO14001

Major Customers

South Korea(99%), Others(1%)

To whom to supply

Pig Farm & Livestock Equipment Distributor

Strengths

1. Customer satisfaction management
2. Spirit of challenge
3. Creative technology development
4. Price competitiveness

Main Item



- Name** Automatic Feeding System
- Feature** Stainless steel drive unit and transport device / Smart feed controller / Dispenser
- Function**
- Automatic feeding according to the set value
 - Drive unit has strong, smooth traction
 - Eliminates the risk of fire by using air cylinders



- Name** Cooling System for pig farm
- Feature** Air Conditioner / Cooling Pad using vaporization heat Various cooling Fan
- Function**
- Maintaining the optimum temperature for pig
 - Automatic control according to temperature



- Name** Smart mobile cleanroom
- Feature** Shower for disinfection / Drying of internal-only clothing
- Function**
- Removal of virus through a shower
 - Washing and drying of internal-only clothing
 - Internal sterilization through UV-c

KM Co.,Ltd.



- **President** : MiJa Lee
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- **E-mail** : km@coolerkm.com
- **Contact Person** : YoungSun Park
- **Title** : Doctor of Business Admin.
- **Dept.** : CEO
- **Website** : www.coolerkm.com

At a Glance

Business type	Bulk Milk Cooler
Established year	1994
Employee number	12
R&D Employee	3
Annual Sales	(USD) 2,000,000
Export Amount	(USD) 50,000
Certifications	CE

To whom to supply

(B2B) Milk Cooler Distributor, Installer
(B2B) Dairy Manufacturer, Milk cooperative
(B2C) Large Dairy Farm

Strengths

1. Real-time check and instruction of the milk cooler's temperature, milk collection status, and washing operations from the outside with a mobile phone
2. Customized to individual farm conditions for cooling operation time, stirring operation time period, detergent input amount, washing water amount etc
3. Individual operation side/botton simple cooling plate to prevent butterfat separation
4. Food quality stainless steel SUS304/POSCO, Korea
5. The temperature of its content will warm up only 1°C in 24 hours even with outside of 30°C and no power

Strengths

6. Equipped with 4 fans and 4 motors for powerful air-cooled cooling
7. Compressor : Copland/USA
8. Agitator : Panasonic/Japan

Main Item



Name KMC-5000SS (5,000 liters)

Feature All functions, automatic temperature control and washing process etc. can be operated outside of the dairy farm, via mobile phone.

Function

- Size 5,000 liters (Size available 3,000~10,000 liters)
- Prescheduled cooling and washing time is available
- Monitors status of the cooler in real time via mobile phone



Name KMC-3000SB (3,000 liters)

Feature

- Operating 7" LCD Touch Screen
- Programmed Standard Cooling and Washing Process

Function

- Size 3,000 liters (Size available 2,000~10,000 liters)
- Prescheduled cooling and washing time is available
- Programmed Process can be customized for individual dairy farms
- Monitors status of the cooler in real time through monitor



Name KMC-3000SA (3,000 liters)

Feature

- Strong and Economic Structure.
- Mechanical button control panel installed

Function

- Size 3,000 liters (Size available 2,000~10,000 liters)
- Programmed 4 different levels cooling temperature
- Programmed 4 different kinds washing process
- Manual cooling, washing, agitating, available

SAMWOO Co.,Ltd.



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- **E-mail** : sweng35@hanmail.net
- **YouTube** : youtu.be/luxdx2f93o
- **Contact Person** : SongHee An
- **Title** : PRESIDENT
- **Dept.** : Overseas Operations
- **Website** : www.samwooinc.net

At a Glance

Business type	manufacturer
Established year	1992
Employee number	30
R&D Employee	5
Annual Sales	(USD) 10,818,182
Export Amount	(USD) 354,831
Certifications	KC, CE

Major Customers

Philippines(50%), China(30%), USA(15%), Others(5%)

To whom to supply

(B2B) Distributer, Sales Partner with installation team
(B2C) Farm owner

Strengths

1. SAMWOO supply the feeding, drinking, ventilation system for poultry, swine, cattle house more than 25 years
2. Stable management of quality
 - All the materials and parts are strictly quality- controlled
 - No fluctuation of quality
3. Specially made alloy coated pipe
 - Anti-corrosion material
 - 5~10 times stronger anti-corrosion than GI pipe

Strengths

4. Own research institute in Korea

Main Item



youtu.be/ig6gFXyM3Ek

Name

BROMAX

Feature

Combination of Grill style and open style broiler feeder

Function

- Unique design too keep birds out -> clean feed
- Easy access to feed
- Easy opening and cleaning
- Strong material, no breakage



youtu.be/ig6gFXyM3Ek

Name

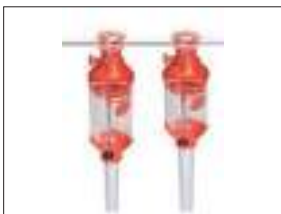
NIPPLE

Feature

Supply clean and fresh water without leakage

Function

- Flow rate can be adjusted according to each farm's need
- Assembly and disassembly are easy and simple
- Nipple can be cleaned without disassembling



youtu.be/luxdx2f193o

Name

Swine Dispenser

Feature

Supply limited and exact feed for swine farm

Function

- Exact Feed measurement
- Measuring scales adjustable by 100g
- Door and pendulum type for gestation, farrowing

ThinkforBL Inc.



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- **Contact Person** : SeHui Park
- **Title** : Corporation Information
- **Dept.** : General Affairs Team
- **Website** : www.thinkforbl.com

At a Glance

Business type	S/W Development, Manufacture, Production, Distribution
Established year	2008
Employee number	33
R&D Employee	9
Annual Sales	(USD) 1,471,107.65
Export Amount	(USD)
Certifications	8 overseas patents

Major Customers

South Korea(100%)

To whom to supply

Livestock facilities company, Smart Farm company, Livestock department of local government, Farmers

Strengths

1. No. 1 company in the industry of SW Engineering Consulting
 - Fulfillment more than 300 field support for SW R&D companies over 10 years
2. Possessing unrivaled technology in SW Globalization/ Localization sector
 - Development and retention of localization guide map 'T16N'

Strengths

3. Holding various patents such as Smart Farm/Safety, etc.
 - 26 registrations / 19 applications / 8 PCT applications
4. Establishing a global base
 - Holding branches in Singapore, Vietnam, etc

Main Item



Name

- Pig-T

Feature

(1st distinction)

Presentation of results based on Artificial Intelligence

(2nd distinction)

Contactless technology

- Information on pig status can be obtained without having to attach sensors directly to pig
- This means reducing pig stress because of attaching sensors and reducing the risk of secondary disease due to contamination of contact sensors
- Elimination of burden for cost of mounting by individual when grazing

(3rd distinction)

Identification of diseases of various types

- Unlike SOMO's SoundTalk, it can grasp not only respiratory diseases, but also digestive and joint diseases

Function

- Guide to the probability for pregnancy of mother pig
- Suggestion recommended quarantine line and expected mobile route
- Guide to the possibility of various diseases
- Suggestion the way of profit improvement for farmhouse

Special note

- Joint Venture with China in Progress

uLikeKorea Co.,Inc.



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- **YouTube :** bit.ly/2GW0p6l
- **Contact Person :** Seunghwan Lee
- **Title :** CEO, ph.D
- **Dept. :** Global Business
- **Website :** www.livecare.xyz

At a Glance

Business type	Smart Precision Farming Technology
Established year	2012
Employee number	29
R&D Employee	17
Annual Sales	Confidential
Export Amount	Confidential
Certifications	Product Manufacture Notification of Animal Medical Device (No. 198) Certificate of Veterinary Medicinal Device (No. 198-001, 198-002)

Major Customers

Asia(45%), America(30%), Europe(20%), Others(5%)

To whom to supply

Primarily targeted at the large-scale farms, government institutions, and global B2B companies related to FnB(meat processing or dairy products), animal feed, veterinary medicine, livestock distribution and etc.

Strengths

uLikeKorea is a smart livestock farming company specializing in a ICT solution called LiveCare. With a single bio-capsule, a user has access to over 500 million data points based our AI analysis.

Strengths

As the interest in the sustainable animal husbandry is growing, we aim to make every effort to contribute to the advancement of the global livestock industry.

Main Item



Name

LiveCare Bio-Capsule

Feature

Ingestible sensor made by nontoxic materials and it was certified as the animal medical device in Korea and Japan

Function

- Collecting biometric data in real time
- IoT-embedded sensors, module and battery included
- Settled in the rumen of livestock until cows are shipped



Name

LiveCare Application

Feature

Livestock health monitoring platform based on Artificial Intelligence(AI) analysis (Deep Learning)

Function

- AI-enabled detecting diseases and estrus earlier
- Providing estimated calving period and individual health alerts
- Reliable data provision with over 500 million biometric data

Wise Big Co.,Ltd.



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- **Title** : CEO
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- **Website** : www.kads.co.kr

At a Glance

Business type	Development Big Data Platform for Livestock Farming
Established year	2017
Employee number	4
R&D Employee	2
Annual Sales	(USD) 536,822
Export Amount	(USD)
Certifications	Direct Production Confirmation

Major Customers

Asia(China 50%, VietNam 30%), Europe(20%)

To whom to supply

Swine Farms(Breeding more than 2k), Companies Related to Livestock Industry, Vendors and Suppliers etc.

Strengths

1. Built Big Data Platform for Livestock Farming
(The only ALL-IN ONE Solution in South Korea)
2. The longest Period selected As a Consulting Company
by Government for 5 Years(Since 2016)

Strengths

3. Have More Than 100 Specialized Internal&External Consultants (39 for Swine/19 for Poultry/16 for Dairy/26 for Korean Cattle Experts)

Main Item



Name Dairy Big Data Platform(S/W)

- Feature**
- Useful to Farmers, Consultants, ICT Companies etc.
 - Built Data Networks with 102 of IOT Products From 62 Companies
 - Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc.
 - Resolving Limitation of Space-time by Cloud Based

- Function**
- Creating Milking Performance Prediction Model By Analysing Correlation with Estrus Intensity, Mating Count, THI(Temperature-Humidity Index) etc for Milking Records
 - By Analysing Activity Data, Able to Forecasting Disease and Treating
 - Creating Milking Performance Prediction Model By Analysing Correlation with Estrus Intensity, Mating Count, THI(Temperature-Humidity Index) etc for Milking Records
 - Detailed Specification Management By Analysing Cows` Data
 - Reduction of Mating Count by Anticipating The Right Time For Mating Based on The Estrus Management of Each Cow



Name Swine Big Data Platform(S/W)

- Feature**
- Useful to Farmers, Consultants, ICT Companies etc
 - Built Data Networks with 102 of IOT Products From 62 Companies
 - Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc

Main Item

Feature

- Resolving Limitation of Space-time by Cloud Based

Function

- Able to Draw Feeding Program by a Pig By Parity, Number of Lactating Piglets, BCS, Amount of Drinking
- Able to Monitor Environment in The Barn and Enhancement of Feed Intake by Analysing Temperature and Humidity Data from Environment Sensors
- Enhancement of Wean Rate by Forecasting Disease and Early Treating by Way of Analysis Status of Disease Outbreak
- Enhancement of Wean Rate by Managing Data of Sows` Mortality/Culling, Weaned Piglets Count, Weaned Piglets Weight, Marketted Grade Able to Compare and Analysis by Drawing Net Profit and Farm`s Average Performance Based on Feed Cost, Labor Cost and Piglet Sales



Name

Poultry Big Data Platform(SW)

Feature

- Useful to Farmers, Consultants, ICT Companies etc.
- Built Data Networks with 102 of IOT Products From 62 Companies
- Management and Analysis of Total Data Such as Breeding/Environment/Disease/Operation etc.
- Resolving Limitation of Space-time by Cloud Based

Function

- Enhancement of Production Index and Egg Production Index in Way of Data Management Education by age in days
- Enhancement of Feed Efficiency in Hot Summer by Analysing THI(Temperature-Humidity Index) in Henhouse
- Able to Draw Ideal Feed and Feed Program in Way of Comparison Analysis of Temperature, Humidity, Feed Intake, Weight Grows etc

Main Item

Function

- Draw Setting Environment to Minimize Mortality in Each Henhouse Bases of Comparison Analysis of In/Outside Environmental Data
- Assist in Establishing Operation Strategy by Drawing Clear Logic Based on Cost Benefit Analysis Module

04

Plant Factory





APACK Inc.
DOUM TECHNOLOGY Inc.
FUTURE GREEN Co.,Ltd.
Imagination Garden Inc.
N.thing Biz Co.,Ltd.
PLANTFARM Co.,Ltd.
Pure Platech Co.,Ltd.
Sherpa Space Inc.
Synerzen Co.,Ltd.
Vandalsoft Co.,Ltd.
Wats Co.,Ltd.

APACK Inc.



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- **YouTube :** www.youtube.com/watch?v=z8kWhL6D48
- **Contact Person :** Woojung Lee
- **Title :** CEO
- **Dept. :** International Sales Team
- **Website :** www.apack.net

At a Glance

Business type	Manufacturer
Established year	1999
Employee number	28
R&D Employee	5
Annual Sales	(USD) 7,500,000
Export Amount	(USD) 400,000
Certifications	CE, ETL, UL, CU

Major Customers

Europe(60%), Asia(25%), North America(15%), Others

To whom to supply

(B2B) Greenhouse/vertical farm system supplier
(B2B) Horticulture lighting sales partner/distributor

Strengths

APACK horticulture LED is a white LED with full spectrum, which promotes the balanced growth of plants and doesn't cause worker's fatigue. In particular, APACK horticulture LED has strong blue wavelength of the 450nm and red wavelength of 660nm, which can improve the quality of the plant growth and more harvest.

Main Item


Name

H600T

Feature

Suitable for greenhouse and optimal for crops that need high light intensity

Function

- 600W Horticulture LED lighting
- Replacement of 1kW HPS lamp
- PPE: 2.3 / IP Rate: IP65


Name

H320T

Feature

Suitable for greenhouse and vertical farm

Function

- 320W Horticulture LED lighting
- Replacement of 600W HPS lamp
- PPE: 2.3 / IP Rate: IP65


Name

H22P

Feature

Suitable for vertical farm

Function

- 22W Horticulture LED lighting
- Replacement of 50W fluorescent tube
- PPE: 2.3 / IP Rate: IP65

DOUM TECHNOLOGY Inc.



- **President** : MyoungDuk Kim
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- **Contact Person** : GyuHyoen Sohn
- **Title** : CEO
- **Dept.** : Assistant Manager
- **Website** : doumtec.kr

At a Glance

Business type	Manufacture, Agriculture
Established year	2018
Employee number	4
R&D Employee	2
Annual Sales	(USD)
Export Amount	(USD)
Certifications	ISO9001, 14001

Major Customers

America(40%), Asia(40%), CIS(20%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner

Strengths

1. Modular PipeRack vertical farming System Required for indoor Micro Farms
2. Easy cultivation and harvesting of crops using the iot system
3. Full Spectrum GROW LED LIGHT Similar to Sunlight

Main Item



- Name** NEX MICRO FARM RACKSYSTEM
- Feature** Modula piperack vertical farming system
- Function**
- You can run a farm even in a small space
 - Can grow various crops
 - You can harvest many crops through vertical cultivation



- Name** NEX IOT CONTROLLER
- Feature** Micro farm-specific iot control system for smart farm operation at a low price
- Function**
- Cloud-based iot control system
 - You can easily install and operate the device you want
 - You can manage your crops remotely through a 24-hour mobile device



- Name** NEX PECTRA GROW LED LIGHT
- Feature** Full spectrum High Power grow led light
- Function**
- It can provide different wavelengths for the crops
 - A well-suited LED spectrum for cannabis cultivation

FUTURE GREEN Co.,Ltd.



- **President** : JiDong Kim
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- **Contact Person** : JiDong Kim
- **Title** : CEO
- **Dept.** :
- **Website** : www.futuregreen.co.kr

At a Glance

Business type	Manufacturer
Established year	2018
Employee number	7
R&D Employee	2
Annual Sales	(USD) 2,630,000
Export Amount	(USD) 1,611,846
Certifications	UL, FCC, PSE

Major Customers

North America(61%), Asia(39%)

To whom to supply

Vertical Farm Operator, Horticulture Farmer

Strengths

1. Design-Manufacture-Construction-Cultivation solution for CEA(*)
2. Not only grow system provider but also cultivator
3. Key Technology-White LED Grow Light=>Taste, Color Control
4. Global Project Experience - US, Canada, Japan, Mongolia

* CEA : Controlled Environment Agriculture

Main Item


Name

Large-scale vertical farm (FG Farm)

Feature

Mass productive vertical farm

Function

- Scalable, Patented CEA technology can yield year-round crop
- No pesticides, herbicides and chemical fertilizers
- Production twenty times over field farming


Name

Container Farm

Feature

Before having large scale of a vertical farm we are ready to provide a small-scale

Function

- 40" Container farm can grow >3,000kg of lettuce
- Lettuce, Herb, Strawberry


Name

SunGrow LED light

Feature

Superior production yield, Similar to Sun light

Function

- Best full spectrum with only white LED technology
- Optimal designed for vertical farming (Water-proof)
- The first UL lincese for LED grow light in Korea

Imagination Garden Inc.



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- **Contact Person :** SooBin Kim
- **Title :**
- **Dept. :** Business Management
- **Website :** sangsang.farm

At a Glance

Business type	Smart Agriculture and Biology
Established year	2017
Employee number	9
R&D Employee	5
Annual Sales	(USD) 90,000
Export Amount	(USD)
Certifications	New Excellent Technology

Major Customers

Republic of Korea

To whom to supply

Smart Agricultural Companies and Research Institutes

Strengths

1. SW reduces HW costs dramatically
2. Convergence of various fields such as AI, SE, Bio, etc
3. Many patents
4. Refurbish systems for post management

Main Item



- Name** Vertical Smart Farm (Plant Factory)
- Feature** 20 times more crops than ordinary farms
- Function**
- Hydroponic cultivation with automated systems
 - Can stimulate or regulate growth speed
 - Turn-key type product



- Name** Nutrient Solution Management System
- Feature** Can reduce 95% of personnel expense
- Function**
- Ion sensor based nutrient management solution
 - Selectively supply insufficient nutrients only
 - Automated sensor calibration and signal processing with AI



- Name** Bio-agro Products
- Feature** Best medical hemp cultivation company in Korea
- Function**
- Special permission for growing medical hems
 - Fully-automated smart hemp culture systems
 - Higher CBD contents rather than THC

N.thing Co.,Ltd.



- **President** : HyeYeon(Leo) Kim
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- **E-mail** : connect@nthing.net
- **YouTube** : www.youtube.com/channel/UCEfGIA7CRnt0JFcYHU4VgJA
- **Contact Person** : N.thing Biz
- **Title** : CEO
- **Dept.** : Biz
- **Website** : nthing.net

At a Glance

Business type	Agrifood Tech
Established year	2014
Employee number	27
R&D Employee	8
Annual Sales	(USD) 446,994
Export Amount	(USD) 155,900

Major Customers

Middle East(50%), Asia(30%), Europe(20%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center, Distributer Partner, F&B Sales Partner
(B2G) Government Office

Strengths

n.thing developed the world's first modular farm concept that offers both scalability and cultivation efficiency. n.thing Farm can localize operation processes and distribution services for crop production in areas where it is needed.

Main Item



www.youtube.com/watch?v=Rz0unMVZcjQ

Name

n.thing Modular Vertical Farming Solution

Feature

Integrated & automotive indoor hydroponics vertical farming solution with dedicated operating system

Function

- Except for the initial germination cycle, the green leaves have a growing cycle of four weeks which means the cycles can repeat a maximum of 12 times a year
- Since the n.thing Farm does not get affected by the outside climate, the products are of uniform quality
- Farms are facilitated by a dedicated OS automatically to manage the operation anytime, anywhere



www.youtube.com/watch?v=pmLCgOUNBYM

Name

n.thing Frame

Feature

Feature : An indoor hydroponic system anybody can easily grow vegetables at home

Function

- Connect the modules and manage them as one system with ease of complicated hydroponics
- Plant growth LED maximizes growing efficiency and bright natural light color will add great mood to interior
- Helps customers to grow their indoor garden successfully with optimized LED and hydroponic module

PLANTFARM Co.,Ltd.



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- **Contact Person :** yong joo Park
- **Title :** CEO / PRESIDENT
- **Dept. :** Vice President
- **Website :** www.farm8.co.kr

At a Glance

Business type	Agro_tech, Vertical farm, Smart farm
Established year	2004 (Before Corporate Division) 2020 (After Corporate Division)
Employee number	95
R&D Employee	16
Annual Sales	(USD) 41,367,266 (2019)
Export Amount	(USD) 716,314 (2020) (Expected)
Certifications	GAP (Good Agricultural Practices) Non-pesticide Farm Manager Registration

Major Customers

Asia(Singapore, Mongolia), Middle East(Kuwait, Saudi Arabia), Etc

To whom to supply

(B2B) Urban Agriculture developer,
R&D center, Distributer, Sales Partner
(B2G) Government Research Institute

Strengths

PlanTFarm is the largest vertical farm in Korea, has entered the domestic distribution market not only by vertical farms but also by connecting with its salad processing plants.

In addition to the five subway stations located in Seoul, the company is also leading the urban agriculture industry by installing and operating vertical farm facilities in numerous restaurants and government offices.

Main Item



- Name** Mass-production vertical farming module
- Feature** Cultivation facilities suitable for mass production
- Function**
 - Slide-type panel to minimize working flow
 - Automated Cultivation Environment Control (temperature, humidity, etc)
 - Specialized in the cultivation of lettuce



- Name** Farmillo
- Feature** Movable plant growing module that can be operated just by plugging in an outlet
- Function**
 - Remote control over Internet connections
 - Automated Cultivation Environment Control (temperature, humidity, etc)
 - Specialized in the cultivation of lettuce



- Name** Automated Smart Farm (Container Type)
- Feature** Automated cultivation process
- Function**
 - Automated Cultivation Process Through Computer
 - Automated Cultivation Cycle Control (Harvesting, Moving, Environment control, etc)
 - Specialized in the cultivation of sprout

Pure Platech Co.,Ltd.



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- **Contact Person :** SeonMi Lee
- **Title :** CEO
- **Dept. :** R&D Institute
- **Website :** www.pureplatech.com

At a Glance

Business type	Manufacturing
Established year	2018
Employee number	4
R&D Employee	3
Annual Sales	(USD) 400,000
Export Amount	(USD) 9,300

Major Customers

Asia(90%), Europe(10%)

To whom to supply

Agricultural cooperative, Research Institute, Smart Farm System Distributor, etc

Strengths

1. Possessing plasma technology
2. Possessing self-developed power supplies
3. Customized product manufacturing

Main Item



Name

Sterilization Device of Nutrient Solution

Feature

World's Leading (first) Plasma-Based Radical and Chlorine dioxide Gas Mixing System

Function

- Sterilize generated waste nutrient solution and convert it to reusable
- Nutrient solution condition sensing and integrated control interoperation can be controlled
- Output control by crop



Name

Agricultural Freshness Maintenance

Feature

Decomposition of Ethylene and Sterilization using AC-Plasma

Function

- Keeping agri-food freshness in storage
- Realtime Monitoring: Storage Door Open and Ozone Concentration, etc
- Programmable On-Off Timing Control & Automatic Interlock Function



Name

Agri-food Plasma Sterilizing Device for Packaging Line

Feature

Extending the shelf life and reducing the spoilage of agri-food like Grape, Strawberry

Function

- Conveyer-type Plasma Sterilization System for Packaging Line
- High Efficient Sterilization and No Leakage of Ozone
- Programmable On-Off Timing Control & Automatic Interlock Function

Sherpa Space Inc.



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- **Contact Person** : Derek Laan
- **Title** : Sales & Marketing Specialist
- **Dept.** : Sales & Marketing
- **Website** : www.sherpaspace.co.kr

At a Glance

Business type	Smart Farm Technology (Horticulture Lighting)
Established year	2016
Employee number	15
R&D Employee	7
Annual Sales	(USD) 54,000 (2020)
Export Amount	(USD) 30,000 (2020)
Certifications	UL, KC

Major Customers

North America, South Korea, South East Asia

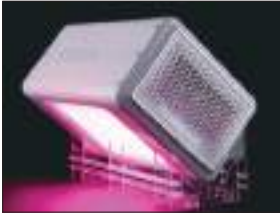
To whom to supply

Indoor / Vertical Farms and Greenhouses

Strengths

1. Expertise in the light needs of a variety of plants
2. The Sherpa Light improves plant yield and content of specific nutrients
3. Customized solutions available to suit farmers needs

Main Item

**Name**

Sherpa Light

Feature

The Sherpa Light is a full spectrum, tunable grow light used in indoor farming or greenhouses as a supplemental light

Function

- Tunability- The spectrum of light can be adjusted to meet the growers demands & cover all of the various stages of the plants life cycle
- Light Recipes - The light comes preprogrammed with light recipes which give the spectrums & intensities of light for specific periods of time based on the stage of growth the plant is in. This can improve the yield and amount of specific nutrients produced
- Light scheduling is fully programmable remotely with the Sherpa Light app

Synerzen Co.,Ltd.



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- **E-mail** : lhh524@synerzen.co.kr
- **Contact Person** : HyunHee Lee
- **Title** : Research Engineer
- **Dept.** : Management Support Division
- **Website** : www.synerzen.co.kr

At a Glance

Business type	Software/Hardware development et al
Established year	2019
Employee number	22
R&D Employee	20
Annual Sales	(USD) 60,670,081
Export Amount	(USD)
Certifications	medium-sized businesses et al

Major Customers

Asia(100%)

To whom to supply

Photovoltaic Power Related to Solar Power,
Smart Farm Operator

Strengths

1. Provide IoT-based energy cloud services
2. Development of Energy Storage System(ESS) Charge Discharge Control System
3. Development of Air Purification and Aseptic Safety Booth
4. Development of Streetlight Control System for Disaster Safety

Main Item



Name

Energy Cloud Service

Feature

Energy consumption optimization system through direct and indirect connection and control of energy sources and facilities

Function

- Integrated energy platform that enables ESS multi-protocol (Modbus, IEC61850, DNP3.0) connectivity and provides multi-service (Peak Cut, TOU, VAR, BlackOut, DR, FR)
- Integrated data analysis through IoT-based systematic fault response system enables rapid maintenance and response (real-time response with mobile automatic transmission) and risk analysis



Name

ESS Charge and Discharge Control System

Feature

ESS Charge and Discharge Control System

Function

- Integrated energy management system that can be applied to various fields using ESS (BEMS, FEMS, ESS, solar energy, solar energy-linked ESS, etc)
- Manage configuration needs to receive energy data in various standard communication methods (TCP Modbus, BACnet, CAN, RS485/RS422)



Name

Air Purification and Aseptic Safety Booth

Feature

Air Purification and Aseptic Safety Booth

Function

- It provides alert services for environmental safety, such as real-time environmental safety warning services, fire and power outage emergency alert services, and crime-prone areas alarm services

Main Item

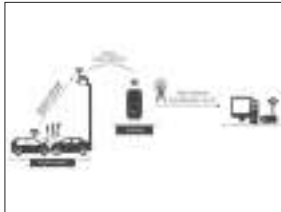
- Function**
- The booths are equipped with air purification and sterilization ventilation facilities to provide a more hygienic and less contagious environment



Name Energy Management System for Intelligent Building Management (EnerMONS v1.0)

Feature Energy Management System for Intelligent Building Management (EnerMONS v1.0)

- Function**
- A system that helps optimize energy consumption such as peak reduction and energy saving through real-time measurement and analysis of the operation status of energy sources and facilities
 - Supports peak cut, peak shift, peak shading, TUE, VAR, BlackOut, DR control to operate a variety of consumertailored platforms
 - Reduce maintenance· failure response time and cost in the form of an appliance



Name Streetlight Control System for Disaster Safety

Feature Streetlight Control System for Disaster Safety

- Function**
- A solution that can install integrated sensors integrated into LED streetlights to monitor port anomalies and quickly communicate emergency situations to related agencies (fire department, etc)
 - The existing street lamps are equipped with sensors and gateways to check the facilities and safety conditions of the port through Wi-Fi or LoRa
 - Increase energy savings through the installation of solar panels and small ESS for street lamp power



Plant Factory

Vandalsoft Co.,Ltd.



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- **YouTube** : www.youtube.com/channel/UCtCAJaoleDZ31XuXxCVTmiA
- **Contact Person** : SeoEun Lee
- **Title** : CEO
- **Dept.** : International Relations
- **Website** : www.vandalsoft.com

At a Glance

Business type	Insect Smart-Farm
Established year	2017
Employee number	3
R&D Employee	2
Annual Sales	(USD) 35,000
Export Amount	(USD)
Certifications	Venture Certification

Major Customers

Southeast Asia(50%), Europe(25%), North America(15%), Middle East(10%)

To whom to supply

(B2C) Smaller-scale farmers looking to start an insect smart farm
(B2B) Insect farms looking to convert into a smart-farm
(B2G) Regional Governments, that are looking to invest in the insect farming sector

Strengths

Our specialty is our insight into breeding crickets. Crickets are one of the hardest insects to farm due to their sensitivity to the environment; the same technology can be used to farm most other insects.

Main Item



www.youtube.com/watch?v=e_FP7iOnjRc&ab_channel=vandalsoft

Name

IoT Twinstarfarm

Feature

Rack built for automatically breeding crickets.

Function

- Automatically waters crickets
- Automatically controls lighting for the crickets well being
- Can be used to breed other insects



www.youtube.com/watch?v=TPe-c-zKXI8&ab_channel=vandalsoft

Name

Container Smart-Farm

Feature

Insect smart-farm installed in a container

Function

- Fully functional insect smart-farm installed in a container
- A product for farmers who want to start smaller-scale, or businesses that want to experience before they install a large insect smart-farm



Name

TF Controller

Feature

Functions as the command center for the smart-farm

Function

- Coordinates water, lighting, humidity and temperature to optimize for insect breeding
- Collects data related to crickets well-being

WATS Co.,Ltd.



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- **YouTube** :
- **Contact Person** : Namjoon Kim
- **Title** : CEO
- **Dept.** : Technology Development
- **Website** : www.watswigro.com

At a Glance

Business type	Manufacturing
Established year	2020
Employee number	
R&D Employee	
Annual Sales	(USD) 79,330
Export Amount	(USD) 15,121
Certifications	

Major Customers

Asia (50%), Middle East (25%), Kenya (25%)

To whom to supply

(B2C) Farmer
(B2B) Hydroponic facility service provider

Strengths

WATS Co., Ltd is optimal for hydroponics through the development of products with improved crop cultivati fficiency and agricultural work convenience based on the specialized agricultural machinery material brand WIGRO for hydroponics, which means "innovative agriculture".

We try to contribute to t he income of farmers and the industrialization of agriculture by providing optimized solutions.

Main Item



Name

Strawberry Hydroponics System - U High Bed Kit

Feature

Function

- Space utilization, improved convenience in farming, and excellent design provide an optimal cultivation environment



Name

Multifuel Hydroponics System - T Bed Kit

Feature

Function

05

etc.





ASIA SEED Co.,Ltd.
GREEN PLUS Co.,Ltd.
HANGARAM PONICS Co.,Ltd.
HyosungONB.,Ltd.
ISU Chemical Co.,Ltd.
Jenong S&T Co.,Ltd.
JISUNG Co.,Ltd.
KIBAN TECH Co.,Ltd.
korea agricultural rockwool Co.,Ltd.
Saturn Bio Tech Co.,Ltd.
SMART HIVE Inc.
Taekwang Newtec Co.,Ltd.

ASIA SEED Co.,Ltd.



- **President** : KyoungOu Ryu
- **Tel.** : +82-70-4040-7196
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- **E-mail** : tr@asiaseed.co.kr
- **Contact Person** : SeongJun Kim
- **Title** : Regional Manager
- **Dept.** : Oversea Sales & Marketing
- **Website** : www.asiaseed.net

At a Glance

Business type	Vegetable seed breeding & Exporting
Established year	1997
Employee number	200
R&D Employee	100
Annual Sales	(USD) 18,000,000
Export Amount	(USD) 5,000,000
Certifications	

Major Customers

India(30%), Asia(20%), North America(20%), Europe(15%), Etc

To whom to supply

Seed company (Agricultural material Importing & Exporting)

Strengths

1. 3 R&D station (two in Korea and one in Vietnam)
2. Top breeding program in vegetable crops
3. Export to more than 50 countries all around the world
4. Providing high quality seeds from Korea

Main Item



- Name** Asia Ball F1
- Feature** Hybrid onion with good yield and storage
- Function**
- High yielding
 - Strong vigor and quality
 - Fast Maturity



- Name** Lovely 256
- Feature** Pink Tomato with good quality
- Function**
- Strong Plant vigor
 - High percentage of marketable fruit
 - Beautiful pink color with farm fruit



- Name** Yellow Arirang
- Feature** Special melon with yellow flesh
- Function**
- Crimson Sweet watermelon with special color flesh
 - Sweet and crispy yellow color flesh
 - Good vigor and coverage

GREEN PLUS Co.,Ltd.



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- **Contact Person** : JaeJong Yang
- **Title** : President
- **Dept.** : Management Department
- **Website** : www.greenplus.co.kr

At a Glance

Business type	Smart-Farm(green house) construction
Established year	1997
Employee number	105
R&D Employee	20
Annual Sales	(USD) 42,554,000
Export Amount	(USD) 5,000,000
Certifications	ISO9001

Major Customers

Japan(80%), Australia(10%), Etc(10%)

To whom to supply

(B2C) Farmer
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

In particular, as Korea's top company in the high-technology greenhouse field, we have exported and constructed more than 490 acres from 1999 to the high-tech greenhouse powerhouse, and obtained ISO9001 certification by internalizing the entire process from greenhouse design to material manufacturing and construction in factories with more than 8.17 acres.

Strengths

The company-affiliated research institute, which is composed of the best experts in the greenhouse field in Korea, holds various valid patents.

Main Item



Name Smart-Farm

Feature high-technology greenhouse

- Function**
- Up-down cultivation system (patent)
 - Root-zone cooling and heating system (patent)



Name high-tech eel farming complex
(Inland Fish Smart-Farm)

Feature Green Fish Farm is operating the largest eel farming

- Function**
- Automatic sorting system (patent)
 - Circulation filtration system (patent)

HANGARAM PONICS Co.,Ltd.



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- **Contact Person** : SeokMin Jang
- **Title** : CEO
- **Dept.** : Management Team
- **Website** : hponics.co.kr

At a Glance

Business type	GREENHOUSE CONSTRUTION, MATERIAL PRODUCTION SALES
Established year	2009
Employee number	9
R&D Employee	2
Annual Sales	(USD) 5,000,000
Export Amount	(USD) 800,000

Major Customers

Russia(50%), Eastern Europe(50%)

To whom to supply

(B2B) Urban Agriculture developer, R&D center,
Distributor, Sales Partner

Strengths

Hangaram Ponics Co., Ltd, was incorporated to development and distribution of aquatic nutriculture system for agricultural produce, construction of plant factory, development of ginseng nutriculture facility, and development, designing and installation of glass and other greenhouses as well as mushroom cultivating facility and observational greenhouse, etc. under the corporate philosophy of

Strengths

generating profits for the company by providing benefits to the farmers through development and installation of farming facilities and cultivating system in Korea since its initial establishment, and has now become a highly specialized installation company.

We are putting in our utmost efforts to become a company specializing in overall areas of agriculture with the goals of designing and installing large-scale glass greenhouse, research on the methods of cultivating crops and development of system thereof, and expansion of Korean farming into overseas countries.

We pledge to fulfill our role as a company specializing materials through introduction of products, new technologies and materials customized to the needs of the customers.

Main Item



Name High Tech Greenhouse

Feature Designed with standards optimized for growing tomatoes and paprika, the high-tech glass greenhouse has high stability due to accurate structural calculation of frost damage, high temperature in summer, high temperature in winter, and excellent facilities are available anywhere in the country.

Function

- Ceiling opening and closing type
- Wall polycarbonate duplex plate



Name Nutrient System

Feature The nutrient solution system is a mechanism that feeds nutrients when watering crops. The ability to provide the nutrients timely as required by the crops allows efficient use of nutrient solution, reduced labor time as well as maximized quality improvement effect.

Main Item

Feature

The nutrient solution machine is composed of an operating part made up of a pump, valve and piping; a sensor part that measures the amount of water, light intensity, soil temperature, and moisture level; and a control part that analyzes the data from the sensors and directs relevant processes for the irrigation pump and the electric valve to work.

The nutrient solution machine is a system that mixes nutrient solution with raw water and continuously feeds it to the destination site. Once the desired time, flow rate, EC and pH values are set up on the computer, the solution is automatically supplied to the sites and the relevant data such as time, volume, EC, pH value and cumulative light intensity are stored in the computer.

In addition, when the solution is not supplied in accordance with the configured data, an alarm can be triggered and the operation can be stopped. The process can be controlled remotely with the Complex Environmental Control system or over the Internet.



Name

Posmac Forming Gutter

Feature

This gutter is designed with an optimized specifications for growing tomato and paprika plant, marked by its solid structure with a unique shape and height. The gutter allows for a high corrosion resistance of the raw materials.

The depth of its drain minimizes the growth of green algae caused by the sunlight and nutrient solution, and allows for a smooth irrigation despite its length.





HyosungONB.,Ltd.



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- **Title** : Exclusive Director
- **Dept.** : Future Planning
- **Website** : www.hsonb.com

At a Glance

Business type	Manufacturing, ICT, Fertilizer
Established year	1984
Employee number	84
R&D Employee	7
Annual Sales	(USD) 25,960,104
Export Amount	(USD) 38,325
Certifications	Environment-friendly Agricultural & Organic Inputs product

Major Customers

America(10%), Asia(50%), Middle East(30%), Others(10%)

To whom to supply

(B2C) Big farmer
(B2B) Distributor
(B2G) Government

Strengths

Hyosung O&B was establishment in 1984. Korea's first mixed milk and mixed organic fertilizer has been developed as a national agricultural cooperative for more than 30 years. It is the nation's largest producer of organic fertilizer that has been expanded and supplied (operating 5 domestic and 1 overseas

Strengths

plant).

By operating a company-affiliated eco-friendly research institute, it is possible to produce products tailored to the needs of the customers through active technology development and product development.

Main Item



www.youtube.com/watch?v=46KMfEzwqDM

Name

Growbag

Feature

This is a high-quality Cocopeat badge guaranteed by Hyosung O&B

Function

- Artificial soil using patent of hydroponic cultivation method
- Ph 5.5~6.5/ Ec 1.5dm/s
- We'll give you the specifications you want



www.youtube.com/watch?v=1aC2h50hlsQ

Name

Nutrient solution

Feature

High purity water soluble fertilizer

Function

- It is high purity water soluble fertilizer after quality test in Hyosung O&B laboratory
- Water-soluble fertilizer used for hydroponic cultivation, with low impurities
- It's packaged in 20kg units



www.youtube.com/channel/UCDoNNIH_NtP3E3tEoQCHWLQ

Name

Mix-8500

Feature

It is a supply machine that can supply the solution uniformly at constant pressure with converter function

Function

- It can be controlled precisely with a simple method
- Separate settings for each zone are possible

Main Item



www.youtube.com/watch?v=vVC1_67XsrQ

Name

YUBAK GOLD (ORGANIC FERTILIZER)

Feature

It promotes proliferation of effective microorganism make mycelium and structure of granular soil

Function

- It is a pure vegetable fertilizer made out of different kinds of oil cakes
- Its ingredients are safe from run-off or leaching after application
- Its organic ingredients will help restore and improve the condition of soils
- The lower water content of Yubak-Gold has enhanced users' convenience and economic benefits



ISU Chemical Co.,Ltd.



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- **Contact Person** : SukMin Jang
- **Title** : CEO
- **Dept.** : Smart-farm Greenhouse Marketing
- **Website** : www.isuchemical.com/eng/index.do

At a Glance

Business type	Chemical products and smart farm greenhouse construction
Established year	1969
Employee number	413
R&D Employee	22
Annual Sales	(USD) 1,394,585,227 (Dec.2019)
Export Amount	(USD)
Certifications	ISO9001, ISO14001

Major Customers

Agricultural Infrastructure Research Institute, Public Procurement Service etc

To whom to supply

(B2B) An urban agriculture developer, Smart Farm Operator etc

Strengths

1. We have both construction and cultivation techniques
2. High quality environmental control system
3. Cost-effective Construction

Main Item


Name

Smart farm Total Package (H/W & S/W)

Function

- We have reference for construction of 5ha smart farm in Xinjiang, China
- Our construction can be customized according to customers' needs
- Cultivation specialists may be dispatched until stabilized


Name

Skylight opening and closing system

Feature

It can control entire skylight in same zone

Function

- It can be constructed with roof opening and closing of the greenhouse
- Due to gearbox can be fitted to drive two motors to open and close the entire skylight in Greenhouse Zone 1


Name

Rail pedestal

Feature

High corrosion resistance and high strength

Function

- It can control left/right width adjustment and upper/lower height adjustment, It's easy to maintain
- It's type of a restraint device to support rail is effective in preventing accidents
- It has high corrosion resistance and high strength as it is manufactured from POSCO's 'PosMAC'


Name

Aluminium gutter

Feature

Improve insulation performance

Function

- Maximize the amount of light in the greenhouse and minimize condensation
- Made of alloy A6063, it has excellent corrosion resistance and durability, easy to machinability

Main Item



Name HPC-7000

Feature It can be connected to a regular computer by mobile and can be operated by a controller

Function

- Hangaramponics Co., Ltd's control system for amniotic fluidizer and irrigation system, and is easy to operate with a large touch screen
- It is possible to offer water by external sensors such as time, spacing, and cumulative light volume, and separately manage EC, Ph, and flow rates for each zone



Jenong S&T Co.,Ltd.



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- **Dept.** : Overseas Division
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- **Website** : www.Jenong.co.kr

At a Glance

Business type	Production / Sales of Breeding vegetable
Established year	1987
Employee number	138
R&D Employee	39
Annual Sales	(USD) 29,047,489
Export Amount	(USD) 295,000

Major Customers

Japan(35%), China(40%), Others

To whom to supply

All seed companies worldwide

Strengths

1. Excellence of Korean seeds
2. Full-scale overseas business implementation
3. Production of specialized vegetable seeds
4. Diversification of vegetable seeds

Main Item



Name

King (Onion)

Feature

Shot day type(over Wintering)



Name

Jin Seong(ZuChini)



Name

Black tiger(Watermelon)

Feature

Mini Water melon



Name

UPS-141 (Hot pepper)

Feature

Up rising



Name

RM (Melon)

Feature

Red type

JISUNG Co.,Ltd.



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- **Contact Person** : DeokYoung Joung
- **Title** : Owner
- **Dept.** : Sales Team
- **Website** : www.jisung.co.kr

At a Glance

Business type	Agricultural Greenhouse Materials
Established year	1990
Employee number	15
R&D Employee	3
Annual Sales	(USD) 2,800,000
Export Amount	(USD) 30,000
Certifications	Certificate of registration for specialized construction business specialized construction business

Major Customers

North America(80%), Asia(20%), Austria, Europe

To whom to supply

Farmer
Urban Agriculture developer, R&D center, Distributer, Sales Partner
Government Office

Strengths

Greenhouse Construction and Material Production

Main Item



Name

Greenhouse Construction

Feature

Farming is possible regardless of season

Function

- The construction period is not long
- You can use it permanently If you change the vinyl periodically



Name

Ramrod (single) 48*25, 48*32

Feature

Pipe(48), materials

Function

- Splice
- Use as a connection and other connecting fittings



Name

Manganese filmlock

Feature

Secure the greenhouse vinyl.

Function

- Be conveniently used
- Hold on to the Vinyl



Name

Rope winch

Feature

Pulling the vinyl in with no effort.

Function

- It pulls heavy vinyl even in a narrow space.

KIBAN TECH Co.,Ltd.



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- **Contact Person** : YoungSeop Shin
- **Title** : CEO
- **Dept.** : Planning Team
- **Website** : norookb.cafe24.com

At a Glance

Business type	Development Agricultural life ICT
Established year	2014
Employee number	8
R&D Employee	1
Annual Sales	(USD) 2,624,637
Export Amount	(USD) 119,840.2

Major Customers

Southeast Asia(80%), CIS(10%), Etc(10%)

To whom to supply

(B2B) BB Agriculture and trading sole Co., Ltd. (LAOS)
Southeast Asia Highlands Agriculture developer, Distributer

Strengths

Main Item



youtu.be/7JdOmDNDdZk

Name

Order Made Smart Green House

Feature

Custom made Greenhouse

Function

- Effective Green House construction
- Customized automatic control equipment
- Building remote monitoring and control functions



Name

GREENHOUSE AND LIVESTOCK SHADE COATING

Feature

Prevent high temperature in summer

Function

- Absorb necessary light for plant growth and emit harmful light
- Reduction crops' stress caused by high temperature

Korea Agricultural Rockwool Co.,Ltd.



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- **Contact Person** : YungOk Rhim
- **Title** : President
- **Dept.** : General Affairs
- **Website** : www.urmedia.co.kr

At a Glance

Business type	Manufacturing n wholesale n retail
Established year	1994
Employee number	20
R&D Employee	4
Annual Sales	(USD)
Export Amount	(USD)

Major Customers

Japan, Australia, Central Asia

To whom to supply

(B2C) Farmer (strawberry, tomato, paprika, cucumber, rose)
(B2B) Urban Agriculture developer, R&D center, Distributer, Sales Partner
(B2G) Government Office

Strengths

1. Long term useable strawberry substrate production, supply
2. Manufacture and supply long-term useable strawberry medium
3. Flood and landslide prevention products manufacturing supply construction

Main Item


Name

Rockwool block and slabs

Feature

High homogeneity, productivity and economy

Function

- The fiber structure is ideal for breathability, water retention and drainage
- We supply medium suitable for growing tomatoes, paprika, cucumbers, melons, and roses
- We have the technology for recycling of used waste rock wool media


Name

Woollite
(Long-term strawberry cultivation medium)

Feature

Hydroponic medium can be used for more 10 years

Function

- Long-term box cultivation of tomatoes, melon and strawberries is possible
- Long-term use compared to organic medium
- Compared to organic medium, pH and Ec control, management is stable


Name

Gabion water block for flood and landslide prevention

Feature

Filterability, water permeability, compression resistance, ease of processing, and light weight
Excellent transport and workability

Function

- It is useful for urban flood prevention
- It is possible to install an eco-friendly fence capable of landscaping walls
- It can be installed as a landslide prevention wall
- It makes the natural ecosystem rich by rapidly penetrating and storing rainwater underground

Saturn Bio Tech Co.,Ltd.



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- **Contact Person** : Joseph Kim
- **Title** : Sales Director
- **Dept.** : Sales Dept.
- **Website** : www.sabit.co.kr

At a Glance

Business type	Manufacturer
Established year	2001
Employee number	11
R&D Employee	2
Annual Sales	(USD) 1,300,000
Export Amount	(USD) 30,000
Certifications	ISO9001, ISO14001

Major Customers

Japan

To whom to supply

Agent

Strengths

1. Fertilizers for Organic Farming
2. 20 years' Knowhow

Main Item



- Name** All Tools
- Feature** For urban gardening and potted plants
- Function**
- Fertilizer of organic farming
 - Fast and slow-acting fertilizer
 - Globular solid type of 20 mm diameter



- Name** Liquid Sulfur-Sil
- Feature** Liquid Sulfur-Silicate (500ml)
- Function**
- Contains 20% of Sulfur
 - Contains 15% of Si
 - Natural Pesticide & Fungicide



- Name** Liquid Silicate
- Feature** Watersoluble Silicate (500ml)
- Function**
- Contains 28% of SiO₂
 - For All Crops
 - Fertilizer of organic farming

SMART HIVE Inc.



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- **YouTube :** youtu.be/Wt-O88TKRKI
- **Contact Person :** YiJeong Kim
- **Title :** CEO
- **Dept. :** Marketing
- **Website :** www.smarthive.co.kr

At a Glance

Business type	Ag Tech, Smart Beekeeping, Smart Farming
Established year	2016
Employee number	10
R&D Employee	10
Annual Sales	(USD) 593,000
Export Amount	(USD)
Certifications	<ul style="list-style-type: none">- Idea Innovation Award, JeonbukCreative Economy Innovation Center- Grand Prize for Solar Convergence Creative Innovation Contest- Ministry of Agriculture, Food, and Rural Affairs, Entrepreneurship Contest, JeonbukCreative Economy Innovation Center- Encouragement Prize at the Idea Contest of the Ministry of Agriculture, Food, and Fisheries- ICT Smart Device National Competition Excellence Award- MIDAS Entrepreneurship Competition, Bronze Award

Major Customers

Europe(50%), Asia(25%), Middle East(25%)

To whom to supply

(B2C) Abroad Beekeeper
 (B2B) Urban Beekeeping Developer, R&D Center, Distributer, Sales Partner
 (B2G) Government Office

Strengths

Daesung has been conducting research and development on beekeeping under the brand "SMART HIVE". Simple interface for any one to use easily by automating repetitive tasks, you can beekeeping with less labor. The Automated honeycomb extraction system makes everyone can beekeeping easily and comfortable. It is the 1st step of automatic beekeeping. Easy to use and increase your product.

Main Item



youtu.be/aWaWMQFPv_M

Name

SMARTHIVE Hive Controller

Feature

Even beginners of beekeeping can pull out the honeycomb from the hive and at the same time brushing the bees. The honeycomb will be loaded and stored on the hanger of Hive Controller

Function

- To perform the operation working time per beehive is about 1min
- Hive controller can be adjusted in width for use with beehives of various size
- HIVE CONTROLLER has been fully implemented, including the ability to adjust the width to allow honeycombs of various sizes to be removed



youtu.be/AmXUT_VF3_M

Name

SMARTHIVE Hornet Guard

Feature

"Hornet guard" that protects the hive from invasion of hornets or wasps

Function

- Minimized waste of time with automatic detection system
- Convention to install and manage
- No need to stay in the apiary because of hornet

Taekwang Newtec Co.,Ltd.



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- **YouTube** : https://www.youtube.com/watch?v=JWJJn_Clt1Q
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- **Title** : General Manager
- **Dept.** : Overseas Department
- **Website** : www.plastar.co.kr

At a Glance

Business type	Manufacturing/Agriculture
Established year	1976
Employee number	130
R&D Employee	5
Annual Sales	(USD) 460,000
Export Amount	(USD) 150,000
Certifications	ISO9001, KPS M1001 & M1004

Major Customers

America(50%), Asia(20%), CIS(30%)

To whom to supply

(B2B) Urban Agriculture developer, Distributer, Sales Partner

Strengths

Leading manufacturer for greenhouse PE film with high performance and thermo plastic sheet (Polycarbonate, PETG & APET) since 1976.

Main Item



Name

TAJO® JANGSOO FILM

Feature

Long life is guaranteed by outstanding strength and durability against various weather

Function

- Copolymer 3layer construction provides excellent film properties
- Most selling item with to many fields for long periods of time
- Ideal for both single and double layer greenhouse applications
- Recommended crops: Strawberry, Tomato, Cucumber & High Value Vegetables



Name

TAJO® PO COATING FILM

Feature

Polyolefin(PO) coated for 3~5years durability of Anti-fog & Anti-drip

Function

- Copolymer 5layer construction provides superior film properties
- High transparency and strength allow better heat retainability and long lasting
- Ideal for single layer greenhouse applications



Name

PLAGLAS® POLYCARBONATE SHEET

Feature

Clear plastic sheet from 1mm to 10mm thick. with various size, 200times stronger than glass

Function

- Transparency (100% virgin resin) with high impact resistant
- 50% lighter and 200times stronger than glass
- Available in Clear, Color tinted translucent, White diffused & Embossed
- Able to form at room temperature without cracking or breaking

Index



Greenhouse



Open field



Livestock



Plant Factory



etc.

Greenhouse

Company Name	Minor class / Main item / Homepage / E-mail	page
AFFES Co.,Ltd.	SW/SI/Platform ; Dual cooling air conditioner(Water & Frozen cycles), 100% stainless steel ss304 as the fan blade, Operation of multi-language systems	006
	www.affes.co.kr jskim@affes.co.kr	
AG-UNI Co.,Ltd.	Manufacturing, SW/SI/Platform ; RENNO, PIUM	008
	www.ag-uni.com bella@ag-uni.com	
BORINURI Inc.	SW/SI/Platform ; Indoor Farm : Technology for hydroponic cultivation inside buildings, Container type hydroponic cultivation machine, Remote contro	010
	www.borinuri.com miracle-company@naver.com	
BYOUNG JUE AGRICULTURAL Co.,Ltd.	Manufacturing ; Tape Binder, Greenhouse repairing Tape	012
	www.tapebinder.com byoungjue@naver.com	
Chang Sung Co.,Ltd.	Manufacturing ; Electric fan heater, Eco-friendly Air Cooler	016
	http://www.창성전기온풍기.kr cso4833@daum.net	
CHUNG-OH ENGINEERING Co.,Ltd.	Manufacturing ; CODM8102 Series, CODM 8103, CODM 8104 Series, CODM 8105, CODM 8106 Series	018
	www.chung-oh.co.kr chungoh-eng@hanmail.net	
DamoTech Co.,Ltd.	Manufacturing ; Soil monitoring Sensor, Enivonment Sensor	022
	www.damoatech.com hmjung@damoatech.com	
Delta E&C Co.,Ltd.	Manufacturing ; Airfog Nozzle / Automatic control unit	024
	www.usairfog.com sccjmk@hanmail.net	
DK ECOFARM Co.,Ltd.	Manufacturing ; Indoor Smart Plant Grower, Container type smart farm, Circulation nutrient solution supplier	026
	www.dkecofarm.com ekhong@dk-ecofarm.co.kr	
EFCONTROLS Co.,Ltd.	Manufacturing, SW/SI/Platform ; SETTOP BOARD for IoT HUB / LTE MODEM	030
	www.efcontrols.com hoyoungkim@efcomontrols.com	
eZEX Co.,Ltd.	SW/SI/Platform ; C20 Smart farm:IoT based Agriculture system, C20 smart home:Smart home management system with lot device	032
	www.ezex.co.kr hjkim@ezex.co.kr	
FARMERS LAB Co.,Ltd.	Manufacturing ; fixed multi-stage cultivator, Smart Controller , Automatic Environment Control	034
	www.farmerslab.org bk@bkgreenhouses.com	
Global Coding Reserch Co.,Ltd.	Manufacturing ; Text-based IoT Coding content(Smart farm), Smart farm real-time transaction solution, Basil Smart Farm Solution	036
	www.g-coding.com hoo7987@hanmail.net	
Global Smart Solutions, Inc.	SW/SI/Platform ; E-GreenFarm system	040
	www.gssiote.com gssiote@naver.com	

Greenhouse

Company Name	Minor class / Main item / Homepage / E-mail	page
GNS KOREA Inc.	Manufacturing ; Surge Protective Device for Electrical/Electronic Equipments & for Telecommunication Equipments, Surge Protective Device for Telecommunication	042
	www.gnsspd.com manstar@gns-korea.com	
Green Control System Ltd.	Manufacturing ; SMARTFARM(MAGMA-1000), Amniotic Fluidizer(MAGMA1000V2.0)	044
	gcsmagma.com gcs3030@hanmail.net	
HANJIN AGRICULTURE & INDUSTRY Co.,Ltd.	Manufacturing ; Hanging Up-Down Bed Introduction(Strawberry)	046
	hanjinjsk@hanmail.net hanjinjsk@hanmail.net	
HUMITEM Inc.	Manufacturing ; Precision Complex Environment Controller (Rich S3), Precision air conditioning system, Precision Control AC Motor	048
	www.humitem.com humitem@humitem.com	
Hwasung Co.,Ltd.	Manufacturing ; Seedling pot - wooreongi pot, Seedling pot-multi cup bed	052
	www.hspot.kr hs7326256@naver.com	
HyunDae-Agricultural Metal Co.,Ltd.	Manufacturing ; Bi-Wa-Do, Greenhouse House A-Z Project, "Turn key", Ga-Chi-Bal	054
	http://www.h-nongjajae.co.kr/index.php hd5640@naver.com	
ILPUM Corp.	SW/SI/Platform ; DG19E5A(CPU Type 1) / DG17E4C(MODBUS RTU AI) / DG16E4E(MODBUS RTU DO) / DG16E4A(MODBUS RTU DI)	056
	www.ilpum.net zeajong@ilpum.net	
ioCrops Inc.	SW/SI/Platform ; ioFarm (ioCrops Cloud), ioCrops Sensors	058
	www.iocrops.com info@iocrops.com	
JEONG-IL GLOCHEM Co.,Ltd.	Manufacturing ; AG-30a, AGS-ST70, AGS-SH60	060
	www.alcotextile.co.kr shilpark@chol.com	
KF Co.,Ltd.	Manufacturing ; Small nutrient solution for plant factory, Complex environment control, Nutrient solution control using light quantity	062
	https://blog.naver.com/kf0314 kf0314@daum.net	
KOREA DIGITAL Co.,Ltd.	Manufacturing ; Sense Cube, Science Cube, Farms Cube	064
	koreadigital.com joseph@koreadigital.com	
Korea Farm Inc.	Manufacturing, SW/SI/Platform ; Trolley conveyor smart farming system	066
	ygkim@korea-wheel.co.kr	
MaaSFarm Co.,Ltd.	SW/SI/Platform ; Apache-Hadoop Based AI Platform Crop Vegetable Horticulture Smart Farm Crop Activity Analysis Smart Phone Application Service	070
	www.maasfarm.com hlee0212@gmail.com	
MANNA CEA Co.,Ltd.	SW/SI/Platform ; ICT Aquaponics Smart Farm system Solution / Salading / Climate-smart Growchamber Farm Solution / Vertical Farm Organic Solution	074
	www.mannacea.com info@mannacea.com	

Company Name	Minor class / Main item / Homepage / E-mail	page
MCOPIA Co.,Ltd.	SW/SI/Platform ; Smart farm environment control system based on Growth DB, 'Growth DB-based automatic control simulation, Smart Farm Training device	078
	www.mcopia.com donmaker@mcopia.com	
MIRAE COLD & HEAT Inc.	Manufacturing ; Green Control System	082
	blog.daum.net/miraeheat gd-dodo@hanmail.net	
MISO TECH Co.,Ltd.	Manufacturing ; AGRON, AGRON COOL, ANYTARP	086
	www.poly-agron.com export.miso@gmail.com	
NARETRENDS Inc.	Manufacturing ; Integrated Automatic Environment Control System, Greenhouse Single-unit Control System, BANDIBURRI-SC	088
	www.naretrends.com intensotec@naver.com	
NONGSHIM ENGINEERING Co.,Ltd.	Manufacturing ; Vertical Farming, Food Plant Engineering, Automated Warehouse	090
	www.nongshimeng.com kmkh@nse.co.kr	
SAMSAN Inc.	Manufacturing ; AUTO mini fogging machine, Tornado Fogging Series	092
	www.dryfog.co.kr seomin0604@nate.com	
SEUNGIL ELECTRONICS Co.,Ltd.	Manufacturing ; Temperature & Humidity Sensor (RHX Series), Compact Modular type DDC, Compressor Frequent Driver for BLDC type	096
	www.si-tec.co.kr globalsales@si-tec.co.kr	
SGT Co.,Ltd.	Manufacturing ; Multipurpose Wide Truss Greenhouse , Patented Next Generation Drip-Irrigation, Smart Complex Hot Air Heater	098
	www.sgtju.com sgt8989@naver.com	
SHINAN GREEN-TECH Co.,Ltd.	Manufacturing ; Air Dehumidification ,Air Mixer, Air Circulation Fan	100
	www.okshinan.com oksg@okshinan.com	
Shinhan A-TEC Co.,Ltd.	Manufacturing ; Attached 10.2" touch screen, Climate control, Recycling system	102
	www.sh1000.co.kr zaepi@naver.com	
SOHA TECH Co.,Ltd.	Manufacturing ; CO2 sensor module, 3 in 1 Transmitter, UNi-Farm(Optimize for mushroom growing)	104
	www.soha-tech.com/eng sohatech@soha-tech.com	
SUHWOOMS Co.,Ltd.	Manufacturing, SW/SI/Platform ; Framin Smart Box, FarmIN SF(Smart Farm) Service	106
	www.suhwooms.com swceo@suhwooms.com	
SUNNONG CO.,Ltd.	Manufacturing ; Flow fan, Stationary unmanned sprayer	108
	www.snong.co.kr sunnong1670@hanmail.net	
SYSCO Co.,Ltd.	Manufacturing ; Air-Fan : Air flows smoothly in greenhouses., Angle -Fan : Make air flows up and down, Heater -Fan : Make air warmmer	112
	Renewing sysco-1004@hanmail.net	

Greenhouse

Company Name	Minor class / Main item / Homepage / E-mail	page
UBN Corporation	Manufacturing ; FarmLink v3.0	114
	www.ubncorp.kr ekahn@ubncorp.kr	
VIVANS Co.,Ltd.	SW/SI/Platform ; Its OutdoorFarm, Its GreenhouseFarm, Its CityFarm	116
	www.vivans.net youngkim@vivans.net	
Wett Energy Co.,Ltd.	Manufacturing ; WT-015, WT-003 WT-005	120
	www.wet-energy.co.kr nsbkim9912@naver.com	
Won Automatic Co.,Ltd.	Manufacturing ; Multilayer Curtain, Farmsys	122
	www.wonauto.com world9090@daum.net	

Open field

Company Name	Minor class / Main item / Homepage / E-mail	page
BIOLINE, Inc	Manufacturing ; Floating Pest Control Machine, Wireless irrigation control system(unmanned, automatic)	126
	www.ebioline.net bioline@empas.com	
Catalonix Inc.	Manufacturing ; Multispectral analysis system for forestry and vegetation, Multispectral camera system	128
	www.catalonix.com m.suk@catalonix.com	
Dae-sung ENG Inc.	Manufacturing ; Agricultural dryer controller(Voice Guidance), DC Motor speed controller, Automatic Battery charger	130
	xn--114-oh3mv18c.com/index.htm dseng9544@daum.net	
GREENMAX Co.,Ltd.	Manufacturing ; Mobile plant factory cultivation Platform, an urban enclosed plant factory : Unmanned automated urban plant factory utilizing big data	132
	www.greenmax.co.kr gm7986@hotmail.com	
Helper Robotech Co.,Ltd.	Manufacturing ; Seeding Machine (Drum type), Ultra Precision Grafting Robot, Paper Pot Manufacturing Machine	134
	www.hr24.co.kr auto3129@hanmail.net	
Hyoshin Mechatronics Co.,Ltd.	SW/SI/Platform ; Solenoid Valve for Water irrigation / Solenoid Valve for Nutrient solution / Hydraulic Control Valve (Reducing valve) / Level Control Valve / Filter /	136
	www.hyoshin.co.kr info@hyoshin.co.kr	
IREIS Co.,Ltd.	Manufacturing ; RM Farm, Farming On, Farming On 2	140
	www.ireis.co.kr cmlim@ireis.co.kr	
NEOFARM Inc.	SW/SI/Platform, Manufacturing ; Farming system software : NCS-PRO, Farming system : Crop growth monitoring system, Farming system : NCS-NUTRIENT	144
	neofarm.biz tdof2000@hanmail.net	

Company Name	Minor class / Main item / Homepage / E-mail	page
Nextsquare Inc.	SW/SI/Platform ; NS Factory Smartfarm solution / Microgrid ESS	146
	www.nextsq.com sklee@nextsq.com	
SAVE Co.,Ltd.	Manufacturing ; SAVE(Drip irrigation hose which has no aid equipment)	150
	www.savedrip.co.kr save1810@hanmail.net	
Saltware Co.,Ltd.	SW/SI/Platform, Manufacturing ; Container Type Seedling Machine, Desert Greenhouse, Environment Control System, Plant Growth LED Lamp	152
	www.saltware.co.kr jklee@saltware.co.kr	
Two-Y Co.,Ltd.	Manufacturing ; Four wings, Weed Killer, Four wings Pro-Light	154
	www.twoytech.com grasshoper55@naver.com	
UNG Technology Co.,Ltd.	Manufacturing ; UNG Water Treatment System	158
	www.ungth.com sukim@ungth.com	
USEM Instruments Inc.	Manufacturing ; Forcasting system of disease and insect	160
	www.usem.kr bada59kr@gmail.com	

Livestock

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
DAEDONGTECH Inc.	Cow/Dairy ; TMR feed mixer& ICT Application, Feed microbial fermentation mixer& ICT Application, SYSTEM FOR DETECTING ESTRUS COW	166
	ddtech.co.kr ddtech2601@naver.com	
DAWOON Co.,Ltd.	Cow/Dairy ; TMR Robot Feeder / Dairy Cattle Automatic Feeder / Robot Calf Feeder / Milking room Automatic Feeder / Horse Automatic Feeder /	172
	www.dawoon.com dawoonel@naver.com	
Ecobiznet Inc.	Cow/Dairy ; Microbial culture system	178
	www.ecobiznet.com jinju.song@ecobiznet.com	
EGGTEC Co.,Ltd.	Chicken/Egg ; Egg grading machine, Mini grading machine	180
	www.eggtec.com sales@eggtec.com	
Emission Control Standard Co.,Ltd.		182
	www.emissioncs.com eugeneko@emissioncs.com	
Enputech Co.,Ltd.	Cow/Dairy, Pig ; Viechle Sterilizer : Complete sterilization using HOCL, ultraviolet rays, and ozone, HOCL Electrolyzed water disinfectant	184
	www.enputech.com hyjo@enputech.com	

Livestock

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
GUNJI Co.,Ltd.	Chicken/Egg ; High Flooring System, Broiler Pan feeder,	186
	www.gunjikorea.com master@gunji.co.kr	
Hohyun Food & Consulting Co.,Ltd.	Cow/Dairy ; Dairy Big Data Platform(S/W) / Swine Big Data Platform(S/W) / Poultry Big Data Platform(SW)	188
	www.hohyun.co.kr admin@hohyun.co.kr	
Hwang Geum TTS Co.,Ltd.	Pig ; Automatic Feeding System / Cooling System for pig farm / Smart mobile cleanroom	192
	www.hgtts.com tts@hgtts.com	
KM Co.,Ltd.	Cow/Dairy ; Milk Cooler Distributor, Installer, Dairy Manufacturer, Milk cooperative	194
	www.coolerkm.com km@coolerkm.com	
SAMWOOD Co.,Ltd.	Pig ; BROMAX, NIPPLE(Supply clean and fresh water without leakage), Swine Dispenser	196
	www.samwooinc.net sweng35@hanmail.net	
ThinkforBI Inc.	Pig ; Pig-T	198
	www.thinkforbl.com general.affairs@thinkforbl.com	
uLikeKorea Co.,Inc.	Cow/Dairy ; LiveCare Bio-Capsule	200
	www.livecare.xyz s.lee@ulikekorea.com>	
Wise Big Co.,Ltd.	Cow/Dairy, Pig ; Dairy Big Data Platform(S/W), Poultry Big Data Platform(SW),	202
	www.kads.co.kr dressi@naver.com	

Plant Factory

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
APACK Inc.	Manufacturing ; Greenhouse / vertical farm LED light	208
	www.apack.net kssong@apack.net	
DOUM TECHNOLOGY Inc.	Manufacturing ; NEX MICRO FARM RACKSYSTEM : Modula piperack vertical farming system, Micro farm-specific iot control system for smart farm	210
	doumtec.kr doumtec@gmail.com	
FUTURE GREEN Co.,Ltd.	Manufacturing ; Large-scale vertical farm (FG Farm) / Container Farm / SunGrow LED light	212
	www.futuregreen.co.kr jidong.kim@futuregreen.co.kr	
Imagination Garden Inc.	SW/SI/Platform ; Vertical Smart Farm (Plant Factory) / Nutrient Solution Management System / Bio-agro Products	214
	sangsang.farm	

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
N.thing Biz Co.,Ltd.	Manufacturing ; n.thing Modular Vertical Farming Solution, n.thing Frame	216
	nthing.net connect@nthing.net	
PLANTFARM Co.,Ltd.	Manufacturing ; Mass-production vertical farming module, Farmillo, Automated Smart Farm (Container Type)	218
	www.farm8.co.kr dalbung@hanmail.net	
Pure Platech Co.,Ltd.	SW/SI/Platform ; Sterilization Device of Nutrient Solution / Agricultural Freshness Maintenance / Agri-food Plasma Sterilizing Device for Packaging Line	220
	www.pureplatech.com dwws1029@pureplatech.com	
Sherpa Space Inc.	Manufacturing ; Sherpa Light	222
	www.sherpaspace.co.kr dereklaan@sherpaspace.co.kr	
Synerzen Co.,Ltd.	SW/SI/Platform ; Energy Cloud Service / ESS Charge and Discharge Control System / Air Purification and Aseptic Safety Booth / Energy Management System	224
	www.synerzen.co.kr lhh524@synerzen.co.kr	
Vandalsoft Co.,Ltd.	Manufacturing ; IoT Twinstarfarm, Insect smart-farm installed in a Container Smart-Farm, TF Controller	228
	www.vandalsoft.com vandalsoft@naver.com	
WATS Co.,Ltd.	Manufacturing ; Strawberry Hydroponics System - U High Bed Kit, Multifuel Hydroponics System - T Bed Kit	230
	www.watswigo.com watswigo@gmail.com	

etc.

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
ASIA SEED Co.,Ltd.	seed ; Asia Ball F1 / Lovely 256 / Yellow Arirang	234
	www.asiaseed.net tr@asiaseed.co.kr	
GREEN PLUS Co.,Ltd.	Construction ; high-technology greenhouse, high-tech eel farming complex / (Inland Fish Smart-Farm)	236
	www.greenplus.co.kr yjj@greenplus.co.kr	
HANGARAM PONICS Co.,Ltd.	Construction ; High Tech Greenhouse, Nutrient System, Posmac Forming Gutter	238
	hponics.co.kr hpc2000@naver.com	
HyosungONB.,Ltd.	fertilizer/substrate ; Growbag, Nutrient solution, Mix-8500, YUBAK GOLD(ORGANIC FERTILIZER)	242
	www.hsonb.com munhyuns@nate.com	
ISU Chemical Co.,Ltd.	Construction ; Agricultural Infrastructure Research Institute, Public Procurement Service etc	246
	www.isuchemical.com/eng/index.do hpc2000@naver.com	

etc.

Cow/Dairy	Minor class / Main item / Homepage / E-mail	page
Jenong S&T Co.,Ltd.	seed ; King(Onion) / Jin Seong(Zuchini) / Black tiger(Watermelon) / UPS-141(Hot pepper) / RM(Melon)	250
	www.Jenong.co.kr tjsoopia@jenong.co.kr	
JISUNG Co.,Ltd.	Construction ; Greenhouse Construction, Ramrod (single) 48*25, 48*32, Manganese filmlock : Secure the greenhouse vinyl., Rope winch	252
	www.jisung.co.kr jisung@jisung.co.kr	
KIBAN TECH Co.,Ltd.	Construction ; Order Made Smart Green House, GREENHOUSE AND LIVESTOCK SHADE COATING	254
	norookb.cafe24.com seongsu.so@noroo.com	
Korea Agricultural Rockwool Co.,Ltd.	fertilizer/substrate ; rockwool block and slabs, woollite, Gabion water block for flood and landslide prevention	256
	www.urmedia.co.kr uragromedia@naver.com	
Saturn Bio Tech Co.,Ltd.	fertilizer/substrate ; All Tools / Liquid Sulfur-Sil / Liquid Silicate	258
	www.sabit.co.kr sabit2@naver.com	
SMART HIVE Inc.	Smart beekeeping ; SMARTHIVE Hive Controller, SMARTHIVE Hornet Guard	260
	www.smarthive.co.kr pppp3238@naver.com	
Taekwang Newtec Co.,Ltd.	Construction ; TAJO JANGSOO FILM, TAJO PO COATING FILM, PLAGLAS POLYCARBONATE SHEET	262
	www.plastar.co.kr jun@plastar.co.kr	

KOTRA자료 21-133

Directory of Korean Smart-Farm Solutions

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