

CHAPTER

01

Automation, Motion & Drives

Korea Digital Co., Ltd.

Jain Technology Co., Ltd

PT COUPLINGS Co., Ltd.

JUNGWOO MOTOR Co., Ltd.

KWANG TECHNOMAGNET

B&B Technology

JND HYDRAULICS Co.,Ltd

Dacell Co., Ltd

DONG BO CHAIN IND. Co., Ltd.

logtech

izmac inc

SAEHAN ELECTRONICS Co., Ltd.

NARA CORPORATION

Solge Corporation

WONST Co., Ltd.

Winner

FASTECH Co., Ltd

HILS ENGINEERING Co., Ltd.

Neuromeka

Rainbow Robotics Co.,Ltd.

ROBOTIS Co.,Ltd.

RS automation

BSQ Co.,Ltd.

ISCHUS Co. Ltd.

ZEOFILTECH Co., Ltd.

KCC Co., Ltd.

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KOREA DIGITAL Co., Ltd.

PRESIDENT Kim Jong Bin

CONTACT Mr. Yu Myung-chul

POSITION Team leader

WEBSITE www.sensecube.com

TEL +82-2-2109-8838

FAX +82-2-2109-8884

E-MAIL sensor@koreadigital.com

ADDRESS #804, Ace Twin Tower2, 273 Digital-ro, Guro-gu Seoul, South Korea.

Products Automation, Motion & Drives



CO2 Sensor (KCD-HS / KCD-HP / KCD-AN / KCD-HF,HC series)

- Dual Wavelength NDIR type CO2 gas sensor module.
- It is long term stable & precise.
- Application : Test facilities, CO2 incubator, Ventilation System, etc..



CO2 & Temperature Controller (KCD-DA)

- Dual Wavelength NDIR type CO2.
- Temperature : NTC
- Humidity(Optional) : semiconductor type
- Application : Environment management system, Securing devices of combustors



O2 Sensor (KCD-ON310)

- Zirconium Dioxide(ZrO2) sensing elements.
- Long life, non-depleting technology.
- Simple calibration
- Application : oxygen generation systems, Combustion control including oil, gas and biomass boiler applications.



PH&EC controller (PE300)

- Easy Installation and Calibration.
- Multi-function and high function with MCU MICRO PROCESS provides the high reliability of data processing.
- Application : Smart Farm system, Hydroponis, Plant factory

At a Glance

Business Type	Manufacture	Established Year	1997	Employee Number	48	Certifications	ISO-9001, ISO-14001, INNO-BIZ, CE
R&D Employee	10	Annual Sales	\$5,300,000	Export Amount	\$1,000,000		

Major Customers

- **Korea** : Samsung,
- **Oversales** : MB group, Shienetk, Motorn, Catec

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JAIN TECHNOLOGY Co., Ltd.

COMPANY OVERVIEW

As a company specializing in flow measurement, Jain Technology develops and manufactures fully digitalized ultrasonic flowmeters for liquid and gas. Using transit-time DSP technology, Jain Technology developed clamp-on ultrasonic flowmeter first in Korea and ultrasonic sewer pipe flowmeter first in world. Our ultrasonic flowmeters can be applied in various sectors such as municipal water, wastewater, cooling water, sewer pipelines, power plant, large rivers, and irrigation canals.

PRESIDENT	Minchul Shin
CONTACT	Nursaulye Khavshan
POSITION	Assistant Manager
WEBSITE	www.jain.co.kr
TEL	+82-2-856-4114
FAX	+82-2-856-9503
E-MAIL	sales@jain.co.kr
ADDRESS	#710, 55, Digital-ro 33-gil, Guro-gu, Seoul, Republic of Korea

Products Automation, Motion & Drives

KOREA



Xonic 100 flow computer



Xonic 100L clamp-on transducer



Xonic 100L flow computer and transducers



Xonic 100LO transducer



Xonic 100LO flow computer and transducer



Xonic 100L large pipe installed

Strengths

Ultrasonic Sewer Pipe Flowmeter Xonic 100LO	· Sludge deposit alarm	Clamp-on Ultrasonic Flowmeter Xonic 100L	· No pipe cutting or welding
	· No regular site cleaning		· Easy setup & convenient installation
	· High accuracy $\pm 2\%$		· High accuracy $\pm 0.5\% \sim \pm 1.0\%$
	· 4path transducer		· Velocity $\pm 0.02 \sim 20\text{m/s}$

At a Glance

Business Type	Manufacture	Established Year	1995	Employee Number	30	Certifications	ISO9001, ISO14001, ISO17025, CE, Green Technology, NEP, NET
R&D Employee	10	Annual Sales	4M US\$	Export Amount	0.2M US\$		

Major Customers

- **Korea** : K-Water Resources Corporation, Seoul Water Works Office, Busan City, Jeju City, Korea Environment Corporation, Korea Rural Community Corporation, Korea Power Plant, Korea District Heating Corporation, LG Chemical, POSCO Steel etc.
- **Oversales** : USA, Italy, Romania, Qatar, Thailand, Taiwan, Philippines, Taiwan, Indonesia, Malaysia

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PT COUPLINGS Co., Ltd.

PRESIDENT

K. S. PARK

CONTACT

James J. Park

POSITION

COO

WEBSITE

www.ptcoupling.co.kr

TEL

+82-31-351-7882

FAX

+82-31-351-6882

E-MAIL

ptcoupling@ptcoupling.co.kr

ADDRESS

66, 156beon-gil, Saneop-ro, Kwonseon-gu,
Suwon, Gyeonggi-do, ROK 16648

Products Automation, Motion & Drives

KOREA



GEAR COUPLINGS



GRID COUPLINGS



FLUID COUPLINGS



API DISC COUPLINGS

Strengths

· No.1 Coupling manufacturers in Korea, Have lots experience of partnership with global leader companies

At a Glance

Business Type	Manufacture	Established Year	1988	Employee Number	26	Certifications	API 671, ATEX, ISO9001, ISO14001
R&D Employee	3	Annual Sales	8.3million USD	Export Amount	28million USD		

Major Customers

- **Korea** : Eunsung Global, HK-Mns, Clean Earth, Hansin Medical, Body Friend. Denstar, Austem
- **Oversales** : Bunn, Lindr, Mobileye, Zubler, Mindray, Screen, Bicakcilar, , Bernar, TOA DKK, KAUTEX, RFS

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JUNGWOO MOTOR
Co., Ltd.

PRESIDENT Sinho Kim
CONTACT Chris Jung
POSITION General Manager
WEBSITE www.jem21.net
TEL +82-31-996-4172
FAX +82-31-996-4175
E-MAIL export3@jem21.net
ADDRESS 90, Hwanggeum 1-ro, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea



Premium Tri-Phase Motor B5



DRIVING OPERATIVE Single-Phase Motor B14



Three-phase motor D Type for hydraulic application



Inverter motor P44



Pressure-resistant single-phase motor P49



Chemical for Pump (Order & Non-Specific)

Strengths

Specialized in customizing motors

At a Glance

Business Type	Manufacture	Established Year	1998	Employee Number	35	Certifications	CE, IECEx, ATEX
R&D Employee	5	Annual Sales	USD 10mil	Export Amount	USD 0.5mil		

Major Customers

- Korea : WorldTect, YHB Eco
- Oversales : Nippon Gear(Japan), Tone House Designs(Taiwan)

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KWANG TECHNOMAGNET

PRESIDENT

CONTACT

POSITION

WEBSITE

TEL

FAX

E-MAIL

ADDRESS

Choi, Tae-Kwang

Sunyoung Cook

Marketing Coordinator

www.kwang-technomagnet.com

+82- 10- 3306- 7288

+82 – 2 – 3016 - 2406

ktminformation@gmail.com

ACE Gasan Tower 1708, Digital-ro 121, Geumcheon-gu,
Seoul, Republic of Korea



Mag-Core M

Lifting capacity

Product Size(mm)

Operation temperature

Feature

Best fit for

1,200 kg.f/ 2,640 lb.f

104 H X 140 W X 190 L

-100~200 °C/ -148~392 °F

strongest module, we can design bigger and stronger if needed

heavy lifting, automation



Mag-Core X

Lifting capacity

Product Size(mm)

Operation temperature

Feature

Best fit for

200 kg.f/ 440 lb.f

33 H X 83 W X 106 L

-100~200 °C/ -148~392 °F

we can design slim down size if needed

Semiconductor Probe Station, Factory Automation



Mag-Core Z

Lifting capacity

Product Size(mm)

Operation temperature

Feature

Best fit for

400 kg.f/ 881 lb.f

50 H X 55 W X 88 L

-100~200 °C/ -148~392 °F

applicable to various industries

Logistic Automation, Robot Holder, Chuck, Clamping



Mag-Core S

Lifting capacity

Product Size(mm)

Operation temperature

Feature

Best fit for

70 kg.f/ 154 lb.f

50 H X 19 W X 60 L

-100~200 °C/ -148~392 °F

we can design mini size, smaller and thinner if needed

Car interior, Modular TV, Lock System



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B&B TECHNOLOGY Co., Ltd.

PRESIDENT John Yun
CONTACT John Yun
WEBSITE www.bnb-tech.com
TEL +82-2-3402-7080
FAX +82-2-3402-7085
E-MAIL bnbtech@bnb-tech.com , yyh@bnb-tech.com
ADDRESS #301,302, Daeryung Technotown 17th, 25, Gasan Digital 1-ro, Geumcheon-gu, Seoul, 08594, Korea

Products Automation, Motion & Drives

KOREA



Vacuum Pressure Control Unit

0~-101.3Kpa
In/Out Port Size : 1/4"~2"



High Pressure Control Unit

Pressure range->0~700BAR



High Volume Pressure Control Unit

Pressure Range->0~30Bar



Electro-Pneumatic Proportion & Servo Control Valves

(MODBUS485,DeviceNet,Profinet)
-101.3Kpa~30Bar
Accuracy : +/- 0.05%(min)~+/-0.2%(max) F.S

At a Glance

Business Type	Manufacturer	Established Year	1999	Employee Number	25	Certifications	patent,ISO,CE
R&D Employee	5	Annual Sales	\$5,900,000	Export Amount	\$1,550,000		

Major Customers

· Korea : Samsung Semiconductor, Samsung Electronics, Samsung SDI, Samsung Display, Hyundai Motor, KIA Motor, LG Electronics, LG Display,etc

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JND HYDRAULICS Co., Ltd.

PRESIDENT AHN JAE HONG
CONTACT AHN JEONG KOOK
POSITION DIRECTOR
WEBSITE www.jnd-hyd.com
TEL +82-31-8059-4918
FAX +82-31-8059-4910
E-MAIL ajk@jnd-hyd.com
ADDRESS 76, Songmal-gil, Yanggam-myeon, Hwaseong-si, Gyeonggi-do, 18629 Korea



DC Power pack



Micro hydraulic power pack



Power pack for industrial lifts and machines



PTO Power pack

Strengths

- Consistent Performance and Reliability
- Customized Hydraulic Solutions (Modular System)
- Low Noise and Low Vibration
- Extremely Low Defect Rates
- Competitive Pricing

At a Glance

Business Type	Manufacturer	Established Year	2003	Employee Number	20	R&D Employee	4
Annual Sales	US\$ 5,000,000	Export Amount	US\$ 1,000,000	Certifications	CE, ISO9001, ISO14001		

Major Customers

- Special vehicle manufacturer
- Farm machinery manufacturer
- Industrial lift manufacturer
- Material handling equipment manufacturer

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DACELL Co., Ltd.

COMPANY OVERVIEW

We have the pleasure to introduce ourselves as one of the leading manufacturers and exporters of the Load cell, torque sensor, indicator, LVDT and data logger. We have experted load cells and indicators since established in 1989. We have factory in Cheongju-city Korea and we have 50 staff. We can produce and supply the Load Cell of 70 models/10g~1000ton. And our company is exporting to 40 countries including USA,Russia,UK ,Turkey , Spain , PHILIPPINES, etc. We are looking for successful agents & partners worldwide, Please email your details to us on info@dacell.com for interest.

PRESIDENT	Hyeongkyun, Shin
CONTACT	Shin Changhwan
POSITION	President
WEBSITE	www.dacell.com
TEL	+82-43-260-2242
FAX	+82-43-260-2245
E-MAIL	info@dacell.com
ADDRESS	37-9 Cheoksan 5gil, Nami - Myeon , Seowon-Gu, Chung-Buk, Korea



Torque sensor 5

Torque sensor is for measuring rotary torque (Rotary sensor) or torsion (Non-Rotary sensor) Mainly used for automobile engines and motor testing.



Robot torquesensor-22



Indicator DN-20W

Indicator is the equipment that is digitally indicating all the output values received from load cells or torque sensors. Various types are available such as the one that can indicate real weight only, and the one with various controlling functions, also the high-speed indicator is available that can be used for torque sensor or other inspection equipments.



LVDT

At a Glance

Business Type	Manufacture	Established Year	1989	Employee Number	40-50	Certifications	CE, ISO9001, ISO14001, OIML
R&D Employee	30	Annual Sales	US\$ 10,000,000	Export Amount	US\$ 2,500,000		

Major Customers

· Korea : Made in Korea

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DONG BO CHAIN Ind., Ltd.

PRESIDENT Lee Gil, Sang
CONTACT Lucas Kang
POSITION Overseas Sales Manager
WEBSITE www.dongbochain.com
TEL +82-51-727-6911
FAX +82-51-727-6919
E-MAIL dbc@dongbochain.com
ADDRESS 27, Nonggong-Gil, Chunggwon-Myon, Gijang-Gun, Busan, Korea



Motion Drive Chain

Chain for power transmission equipment for all kinds of industry Equivalent with international standard specification and conforming precision of tolerance Automation line, lifting machine, eco-friendly products line



Conveyor Chain

Conveyor chain for conveying heavy materials and equipment line Applied to automobile, steel mill, cement and heavy industries Produced according to customized design with a high level of quality products which is made by a precise production facilities.



Leaf Chain

For forklifting truck and weight balance machine, Produced in a high quality of steel material and precise production process and qualified by a strict fatigue strength test.

Strengths

· Long Life of Chain Quality · Customized Chain Design

At a Glance

Business Type	Manufacture	Established Year	1962	Employee Number	342	Certifications	ISO 9001, JIS, KS, Single PPM
R&D Employee	5	Annual Sales	US\$ 30 million	Export Amount	US\$ 10 million		

Major Customers

· **Korea** : Samsung & LG Electronics, Hyundai Motor, Hyundai heavy Industry
· **Oversales** : Distributor, OEM customer (Forklift Machine, Steel Plant, Cement Plant, Automobile & Chemical Industries)

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Logtech Co., Ltd.

PRESIDENT	Yang, Dong-yung
CONTACT	Lim Ho
POSITION	Sales Assistant Manager
WEBSITE	www.logtech.co.kr
TEL	+82-31-777-5885
FAX	+82-31-777-5886
E-MAIL	sales@logtech.co.kr
ADDRESS	#706-707, Gumgang Hightech Valley 1st, 177 Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, Rep. of KOREA

Products Automation, Motion & Drives

KOREA



Model : **LT-AA Series**
· 1~3-Axes Vibration Acceleration Sensor



Model : **LT-AV**
· 4~20mA output signal proportional to RMS velocity vibration



Model : **LT-DP-33**
· Eddy-Current Proximity Probe System Displacement Sensor



Model : **LT-V5-M**
· Mechanical Vibration Switches
· The LT-V5-M Series can be used anywhere shutdown protection from damaging shock and vibration is desired.



Model : **LT-AV-EX**
· 4 ~ 20mA output LT-AV series is compatible with most PLC, DCS, SCADA and Plant Information (PI) systems.
· It is designed to monitor overall vibration levels of auxiliary rotating machinery such as
· This sensor must be used with certified safety barrier (IECEX/ATEX/KGS) : LT-AV-BARRIER

At a Glance

Business Type	Sensor Manufacture	Established Year	2013	Employee Number	10
R&D Employee	4	Annual Sales	1,000,000,000 \$	Certifications	Iso 9001 :2015 , CE, ATEX, IECEx

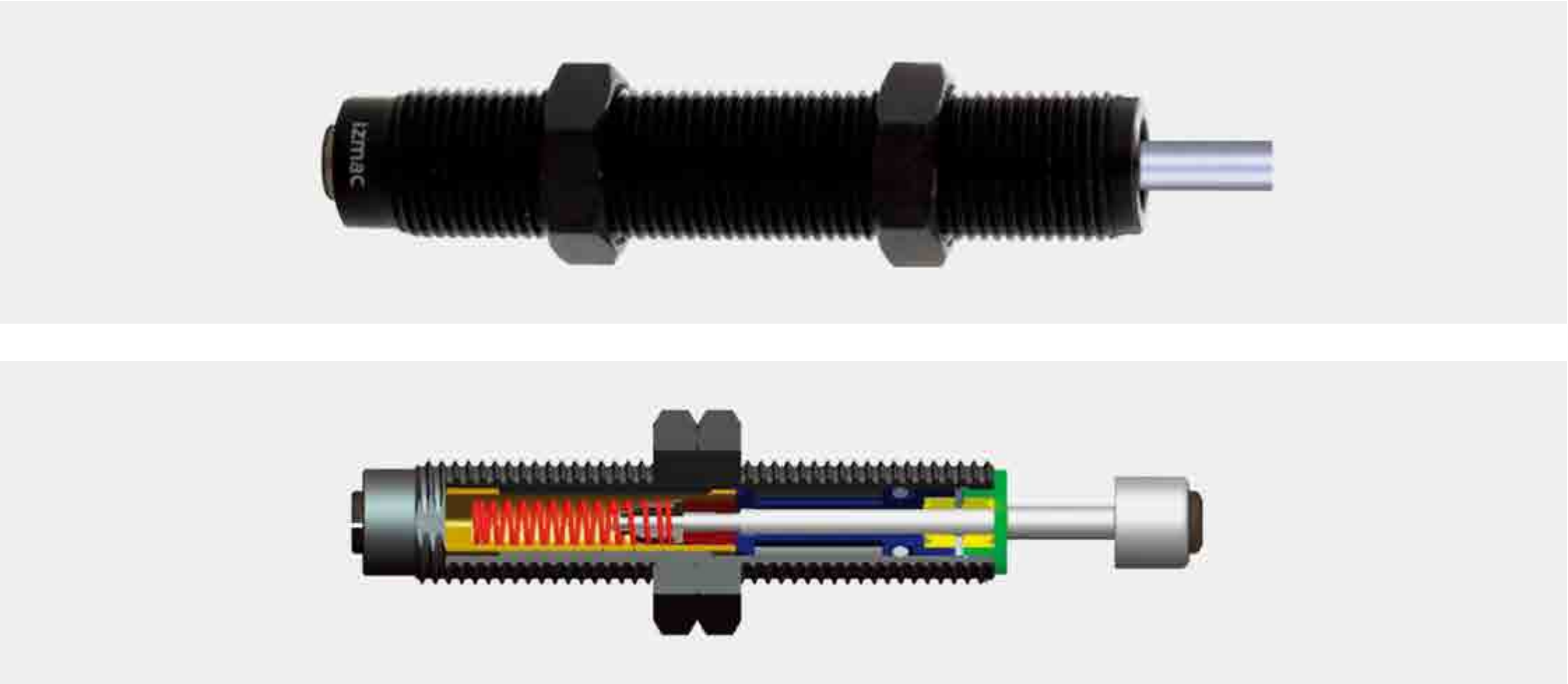
Major Customers

· SFA, HALIM, PoscoICT, Kiturami Boiler, KCL, KIMS, KEPCO

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Izmac Inc.

PRESIDENT Kim Jindol
CONTACT Leo Ahn
POSITION PRESIDENT
WEBSITE www.izmac.co.kr
TEL +82-2-2105-5658
FAX +82-2-2106-8588
E-MAIL leoahn@izmac.co.kr
ADDRESS 5F, A Block, KabeulGreatvalley, 32,Digital-ro 9 Gil
Geumcheon-Gu, Seoul, KOREA (Postal code :08512)



Shock absorber

· IZMAC shock absorber has been developed up to million cycles. To assure long life cycle please be aware of the following regulations.

Strengths

· Quality · delivery · Price · engineering sales

At a Glance

Business Type	Manufacture	Established Year	2007	Employee Number	30
R&D Employee	2	Annual Sales	1.5M\$	Export Amount	0.5M\$

Major Customers

· **Korea** : Festo, SMC, TPC etc...
· **Oversales** : Italy, Germany, Poland, china, Mexico, Australia, India etc...

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SAEHAN ELECTRONICS Co., Ltd.

PRESIDENT	SOOWON CHUNG
CONTACT	SUNTAE CHUNG
POSITION	MANAGER
WEBSITE	www.shmotor.co.kr
TEL	+82 31 636 8145
FAX	+82 31 636 4998
E-MAIL	sales@shmotor.co.kr
ADDRESS	124 SINA-RO, BUVAL-EUP, ICHEON-SI, GYEONGGI-DO,KOREA

Products Automation, Motion & Drives

KOREA



Hybrid stepping motor

Stepping Motor is highly required for Factory automation and Industrial automation.
SAEHAN produces the motor with 1.8 degrees/step.
It can be designed by customer specification even small lot quantity to meet Industrial automation.



BLDC motor

BLDC Motor is highly required for Factory automation and Industrial automation.
SAEHAN produces NEMA23 size from 10~60 watts but it can be designed based on the customer's requested specification.

At a Glance

Business Type	Manufacturing	Established Year	1971	Employee Number	35	Certifications	ISO, CE
R&D Employee	8						

Major Customers

- Korea : SAMSUNG, SINDO, Hanwha system, Huvitz
- Overseas : Canon, MMI Systems

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NARA CORPORATION

CONTACT NO KI-SUK

WEBSITE www.naracorp.com

TEL +82-51-790-7500

FAX +82-51-714-4107

E-MAIL nara@naracorp.com

ADDRESS 194-33 GAHAKSANDANRO GANGSEOGU BUSAN REPUBLIC OF KOREA

Products Automation, Motion & Drives

KOREA



DISC COUPLING

- 1) This is the most suitable coupling for servo motors.
- 2) Stainless steel discs allow eccentric, angular, and axial displacement.



OLDHAM COUPLING

- 1) This is an Oldham type flexible coupling.
- 2) It has electrical insulation



JAW COUPLING

- 1) This is a simple coupling with an element press-fit between two hubs.
- 2) Absorbs excellent flexibility, eccentricity, declination and torsional vibration



HELICAL COUPLIG

- 1) It is a fully integrated structure coupling made of a long spiral groove in a cylindrical material.
- 2) The characteristics of forward and reverse rotation are the same



At a Glance

Business Type	Manufacture & Trade	Established Year	1979	Employee Number	100	Certifications	ISO
R&D Employee	20	Annual Sales	20M(USD)	Export Amount	10M(USD)		

Major Customers

- **Korea** : HHI, Samsung Heavy Industries Doosan, Hyosung,
- **Oversales** : GE, KSB, Flowserve, Mitsui, , Mitsubishi, Ebara, Torishima

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LUBRICATION PLUS

COMPANY OVERVIEW

LUBRICATION PLUS is one of the leading company specialized in the field of Lubrication management since 1999. As Korean business partner of Noria Corp in USA and Wearcheck Int'l in Canada, we have been providing a wide range of services including oil analysis, consulting, training together with supply of lubricant maintenance tools like purifiers, filters, breathers, sensors and oil analyzers etc. We have our own Lab and R&D Center, through which we aim to grow continuously and become a world leader in lubrication management.

PRESIDENT	Taeheon KIM
CONTACT	Kyumi JUN
POSITION	Assistant Manager
WEBSITE	www.lubricationplus.net
TEL	+82-53-588-3301
FAX	+82-53-588-3151
E-MAIL	solge@solge.com
ADDRESS	11, Secheonbukro, 8gil, Dasa-eup, Dalseong-gun, Daegu, Korea



TOMs-F (Varnish, Acid and Sludge purifier)

Total Solution for removing particle, water, acid, sludge and varnish by one purifier. Particle and water contamination cause serious operating problems and shorten life span of the equipment



MBB (A Module type air breather)

Moduler Type Air Breather for Particle and Water Economic selection of required module depending on application.



Ex-Dri (Water purifier)

High Performance Dehydration and Drying Purifier. Can remove all three(3) types of water, i.e., free, emulsified and dissolved water.



GooD-N (Nitrogen generator - Water removal)

GooD-A/N is dry air/nitrogen purging purifier to remove water of oil in the tank or gear box.

OFU (Oil Filtration Unit)

The most reliable and efficient solution to protect equipment from external contaminants and oil degradation, which are root cause for failure of the equipment. Various filter carts to remove not only particle and water but also acid, sludge and varnish, of which filters user can use in turn with common filter housings depending on application.

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WONST Co., Ltd

COMPANY OVERVIEW

Based on expertise and technologies it has gained for about 30 years, WONST Co., Ltd. has contributed to creating import substitution effect and securing competitiveness of domestic core industries including semiconductors, LCD, LED and various machine tools in the field of domestic automation industry. In particular, it has key specialized technologies of application for special steel and heat treatment and ultra-precision machining as well as interpretation ability for rolling motion and sliding motion by domestically producing LM unit, super ball bushing, ball spline, linear motion guide, and crossed roller bearing. With differentiated technologies, strict quality control and competitive pricing, we will do our utmost to satisfy our customers.

PRESIDENT TAEK WON LEE

CONTACT Jerri Lee

POSITION Manager

WEBSITE <http://www.wonst.co.kr/english>

TEL +82-31-370-6400 / +82 -31-370-6424

FAX +82-31-352-7380

E-MAIL jerri.lee@wonst.co.kr / 1won@wonst.co.kr

ADDRESS 224, Yuram-gil, Paltan-myeon, Hwaseong-si, Gyeonggi-do, Republic of Korea
Giheung-Gu, Yongin-City, 17015, Korea



LINEAR MOTION GUIDE



CROSS ROLLER BEARING



BALL SPLINE



CROSS ROLLER GUIDE WAY



SUPER LINEAR BUSHING



LINEAR BRUSHING



LINEAR MOTION SHAFT



KCC12198

Strengths

WON ST provides a full portfolio of linear motion bearings including a variety of Linear Guides including Ball Linear Guides for a general use of linear motion, Mini Linear Guides for a compact environment of linear motion, and Roller Linear Guides for ultra-high load, high rigidity and high precision, a variety of Linear Bushings and Super Linear Bushings, various Cross Roller Bearings, Linear Actuators, Smart Actuators, Shafts and other linear motion parts.

At a Glance

Business Type sole proprietorship Established Year 1989

Employee Number 352

R&D Employee 18

Annual Sales 35.5million euros(2020)

Export Amount 11,643 euros(2020)

Certifications President's Commendation(2020), Samsung Display Linear Motion Guide Quality Certification(2020), Minister of Commerce, Industry and Energy Award(2018), 54 patents, etc

Major Customers

- **Korea** : Samsung Display, SEMES, HYUNDAI Motors, LG Display, LG Chemical, etc.

- **Oversales** : Alert(Walmart), RUBIX, HEPCO, etc.

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WINNER
Co., Ltd.

PRESIDENT Mi Ah, Kim
CONTACT Cheun Bok, Song
POSITION Chief Technology Officer
WEBSITE www.shaft.co.kr
TEL +82-33-733-9669
FAX +82-33-733-9559
E-MAIL sales777@shaft.co.kr
ADDRESS 13, Bidumeokgol-gil, Munmak-eup, Wonju-si, Gangwon-do, Republic of Korea



LDL(Long Distance Linear) SCREW ROBOT

- Long axis over 4000mm
- Max speed 2m/sec at 4000mm stroke
- High precision $\pm 5\mu\text{m}$
- Zero backlash with easy preload
- Low noise 68db at 3000rpm
- Easy maintenance
- Long life span(150kgf)



LDL BELT ROBOT

- Economic robot
- Length over 50M
- Stable operation at high speed
- Anti-dust



SPEED GUIDE (SG&OSG)

- Precise and high speed
- Easy to install
- Special uses through processing

At a Glance

Business Type Manufacture

Established Year 2011

Employee Number 7

R&D Employee 2

Major Customers

· Automation equipment, Inspection equipment, Semiconductor equipment, CNC Router, 3D printing

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FASTECH Co., Ltd.


COMPANY OVERVIEW

FASTECH has positioned as a leading company in a Closed Loop Stepping market since the last 20 years after company establishment and is ready to build maximized business growth thru world-wide export as a Global Brand.
FASTECH provides Closed Loop Stepping solutions together with various industrial networks like EtherCAT, Ethernet, CC-Link, etc.

PRESIDENT	Jinil Song
CONTACT	Yeram Kwon
POSITION	Manager
WEBSITE	www.fastech.co.kr
TEL	+82-32-234-6300
FAX	+82-32-234-6302
E-MAIL	sales2@fastech.co.kr
ADDRESS	Rm#703, 403-dong, Bucheon Techno-Park, 655, Pyeongcheon-ro, Bucheon-si, Gyeonggi-do, Republic of Korea


ProductsAutomation, Motion & Drives

KOREA




Model : **Ezi-SERVOII EtherCAT**

- Minimum cycle time: 0.25[msec]
- Support CiA402 Drive Profile
- Support CSP Mode, PP Mode, Homing Mode




Model : **Ezi-SERVOII EtherCAT MINI**

- 1/3 of the FASTECH standard drive
- Support CiA 402 Drive Profile
- Support CSP Mode, PP Mode, Homing Mode




Model : **Ezi-SERVOII EtherCAT ALL**

- Motor+Encoder+Drive+EtherCAT
- Space, wiring, and cost saving
- SSupport CiA402 Drive Profile




Model : **Ezi-SERVOII EtherCAT 4X**

- Compact 4-Axis Stepping Motor Drive (3-Axis available)
- 1/2 less footprint compared to FASTECH standard drive
- Support CiA 402 Drive Profile



Model : **Ezi-IO EtherCAT**

- EtherCAT based Digital I/O Module
- Adopt e-CON / Terminal Block connector
- Characterized 16&32CH I/O module (NPN / PNP type)



Model : **Ezi-SERVOII Plus-E**

- Provide a Windows Motion Library(API)
- Operation multiple applications simultaneously
- Heat-suppressing by current control depending on load

Strengths

Ezi-SERVOII EtherCAT is a stepping motor control system that supports EtherCAT, a high-speed Ethernet based fieldbus, and is an EtherCAT Slave module that supports CoE. It supports CiA 402 Drive Profile, PP, Homing, CSP Mode. Ezi-SERVOII EtherCAT has been completed compatibility test with various EtherCAT master companys also including EtherCAT Technology group.

At a Glance

Business Type	Manufacture	Established Year	2001	Employee Number	71	Certifications	CE, RoHS, REACH
R&D Employee	23	Annual Sales	20M USD	Export Amount	2.4M USD		

Major Customers

Korea : Semiconductors, LCD, LED, OLED, Mobile phones manufacturing process, Dispensing, Aligning stages, etc

Oversales : Machining, Packaging, Labeling, Printing, Laser optics, Laboratory, etc

kotra

Korea Trade-Investment Promotion Agency

KAR

Korea Association of Robot Industry

Hannover Messe2021

HILLS ENGINEERING Co., Ltd.

COMPANY OVERVIEW

As a company that provides a standard platform for operating 5G and AI-based autonomous robots with IoT technology applied, AI-based embedded development and cloud service robot operation lab that can be applied to autonomous driving robots of various Business Model by applying IoT technology.

PRESIDENT Mueng-gyu, Park

CONTACT Mueng-gyu, Park

POSITION CEO

WEBSITE www.hillslogis.com

TEL 010-4847-9925

FAX 031-5171-5121

E-MAIL hillsmaster@hillslogis.com

ADDRESS F3 Bdg.3, Startup Campus, 20, Pangyo-ro 289beon-gil,
Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea



Coro-Bot(Corona-Robot)



Coro-Bot(Corona-Robot)



Coro-Bot(Corona-Robot)



Lo-Robot(Logis-Robot)

Strengths

Coro-Bot

- Coro-Bot(Corona-Robot), an anti-virus universal disinfection robot, can be applied to various places suffering from the current global pandemic including nursing homes where their residents desperately need to be protected against the novel coronavirus.

Lo-Robot

- Lo-Robot(Logis-Robot) is the first product to enable AI-based operations and 5G-based remote management.
- This operation/management system maximizes user convenience by enabling robot operation efficiency optimization, autonomous maintenance and remote AS.

At a Glance

Business Type B2B

Established Year 2018

Employee Number 11

R&D Employee 8

Annual Sales 105,797,180 won

Major Customers

- Korea : HANKOOK TIRE

Hannover Messe2021

NEUROMEKA Co., Ltd.

COMPANY OVERVIEW

Neuromeka is leading robot automation with
cobot manufacturing, industrial robot manufacturing, delta robot manufacturing,
SI and robot automation platform service.

PRESIDENT	Jonghoon Park
CONTACT	Mavis Lee
POSITION	Head of Department
WEBSITE	https://www.neuromeka.com
TEL	1661-0773
FAX	070-4032-3327
E-MAIL	pr@neuromeka.com
ADDRESS	7, Yeonmujang 5ga-gil, Seongdong-gu, Seoul, Republic of Korea



Indy7



Indy&IndyCB



delta-robot_D3



delta-robot_D6

Strengths

- Easily installed and programmed
- Safely cooperate with people
- Connected always everywhere

At a Glance

Business Type	Manufacture	Established Year	2013	Employee Number	70	Certifications	KCs, NEP, ISO 10218-1, EN 61000-6-4/2, ISO 13849-1
R&D Employee	25	Annual Sales	KRW 7,000M	Export Amount	KRW 1,000M		

Major Customers

Korea : KAIST, KITECH, KT, LG, NAVER, PASECO, POSCO, SK telecom, SUTech, TMC
Oversales : APPLIED MEDICAL, BOTZIAN & KIRCH GMBH , PHANTOM AI, Inc., RELIANCE ENGINEERING COMPANY

Hannover Messe2021

RAINBOW ROBOTICS

CONTACT

POSITION

WEBSITE

TEL

FAX

E-MAIL

ADDRESS

Jungho Lee

CEO

www.rainbow-robotics.com

+82-42-719-8070

+82-42-719-8071

jungho77@rainbow-robotics.com

34122, 10-19 Expo-ro 339beon-gil Yuseong-gu Daejeon, Rep. of Korea



RB Series
cooperative robot



RB Series
cooperative robot



Use Examples
Manufacturing : beverage manufacturing, Assembly Automation, welding, etc.

Strengths

- A collaborative robot is a form of an industrial robot and is a robot arm composed of six joints.
- Existing industrial robots are robots that can be used only by securing a space beyond the robot's motion range and installing a separate safety fence to prevent workers from accessing it.
- On the other hand, the cooperative robot has a built-in safety function, so it is not necessary to have a separate safety device such as an industrial robot, and it is possible to collaborate in the same space as the worker.
- Since it can be used in the same space as the worker, it is a unique type of robot that can be actively used not only in the traditional manufacturing industry but also in the service field for people.

At a Glance

Business Type	Corporation (KOSDAQ 277810)	Established Year	2011	Employee Number	45	Certifications	ISO-9001
R&D Employee	27	Annual Sales	4.7 Million USD(2020)	Export Amount	1.4 Million USD(2020)		

Major Customers

- **Korea** : We mainly target large business partners and small and medium-sized enterprises.

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ROBOTIS Co., Ltd.

PRESIDENT Byoung Soo Kim
CONTACT Paul Park
POSITION Sales Manager
WEBSITE <http://en.robotis.com/>
TEL +82-70-8671-2626
FAX +82-70-8230-1336
E-MAIL contactus2@robotis.com
ADDRESS 37, Magok Jungang 5-ro 1-gil Gangseo-gu, Seoul, 07594, Korea

Products Automation, Motion & Drives

KOREA



Dynamixel Drive DYD



DYD-11



DYD-14



DYD-17

Strengths

· high torque and precision at the same time while being more compact, lighter, and stronger than other gear reducers in the market.

At a Glance

Business Type Robotics

Established Year 1999

Employee Number 125

R&D Employee 61

Major Customers

- **Korea** : LG Electronics
- **Oversales** : Google, Amazon Robotics

Hannover Messe2021

RS AUTOMATION Co., Ltd.

PRESIDENT

Duk Hyun Kang

CONTACT

Yeun Jee Park

POSITION

Product Manager

WEBSITE

www.rsautomation.biz

TEL

+82-31-685-9300

FAX

+82-31-685-9500

E-MAIL

rsagbs@rsautomation.co.kr


ADDRESS

38, Jinwisandan-ro, Jinwi-myeon, Pyeongtaek-si, Gyeonggi-do, Korea

Products


Automation, Motion & Drives

KOREA




Model : **CSD7 Series**

- Provide EtherCAT Network type & Pulse/Analog Type
- 2KHz Velocity Bandwidth, Tuning-less
- User convenience
- Linear motor control, Index function, Safety Torque Off(STO)




Model : **X8 Series**

- Next-generation compact PLC with built-in expandability such as Ethernet communication, EtherCAT motion control, CPU redundancy function, and various communication protocols, expansion of up to 80 modules, and 2,560 points IO support.




Model : **MMC Series**

- EtherCAT (up to 64 axes), Pulse Train/Analog Output Control (up to 8 axes)
- Support various OS and development environment
- Motion DLL library and Visual C++, C#, Visual Basic languages available



Model : **I/O Series**

- I/O system for DeviceNet and EtherCAT.
- Open control and integrated heterogeneous system
- using PC and PLC
- Optimized connection using fieldbus network



Model : **E300 Series**

- Full Absolute Rotary Encoder
- Applicable to Actuators and Servo Motors
- High Resolution (22 bit single-turn)
- Support of Multi-Protocol

At a Glance

Business Type	Manufacture	Established Year	2010	Employee Number	196	Certifications	CE, UL, , KC, EtherCAT Conformance tested, etc.
R&D Employee	44	Annual Sales	KRW 98,749,000,000	Export Amount	KRW 12,824,000,000		

Major Customers

Korea

: Samsung Electro-Mechanics, DCT, ANI, Cymechs, etc.

Oversales

: Rockwell Automation, Yaskawa, Semikron, etc.

kotra

Korea Trade-Investment Promotion Agency

KAR

Korea Association of Robot Industry

Hannover Messe2021

BSQ Co., Ltd.

PRESIDENT HUH, JUNG IL

CONTACT HUH, JUNG IL

POSITION CEO

WEBSITE www.bsqa.com

TEL +82-31-989-5606

+82-32-933-1606

FAX E-MAIL info@bsqa.com (Foreign), bsqa@naver.com (Korean)

ADDRESS #6, Ganghwasandan-ro 73beon-gil, Ganghwa-eup, Ganghwa-gun, Incheon, Korea



Cross Roller Guide



LM Guide



Motor Stage



Support Unit

Equipment Status

- Grinding Equipment for Miniature Guide
- Machining Center

- Grinding Equipment for LM Guide
- Measuring Equipment

At a Glance

Business Type Manufacture

Established Year 2007

Employee Number 95

Annual Sales 15,000,000 USD

Major Customers

- **Korea** : Robot, Medical, Pneumatic, Mobile/Semicon
- **Oversales** : Asia, Europe, USA



Hannover Messe2021

ISCHUS Co., Ltd.

COMPANY OVERVIEW

ISCHUS was founded in June 8th of 2018, as a KIMM institute enterprise, which was sponsored by the Ministry of Science and ICT. The major products are 1~3 ton class smart construction robots, based on electric power, remote control, and smart control technology. By executing government-funded RnD projects during last 3 years, ISCHUS has developed a modular structure construction robot, targeting the remodeling construction works of high-rise buildings. ISCHUS has 4 registered patents and is filing 2 patents. The CEO of ISCHUS, Jongmin Kang, is 30-years of experiences in construction equipments business such as Samsung Heavy Industries, Volvo CE, and HUSCO International. Innovation, environment care and human care are the core values of ISCHUS.

PRESIDENT	JONGMIN KANG
CONTACT	JONGMIN KANG
POSITION	CEO
WEBSITE	http://ischus.kr
TEL	+82-42-863-7063
E-MAIL	albireo.kang@gmail.com
ADDRESS	8-108, 156 Gajeongbuk-ro, Yuseong-gu, Daejeon Metropolitan City, 34103

Products Automation, Motion & Drives



DaVinci10 1-ton class, remote control, electric powered, smart, and assemblable construction robot.

1. Accessibility to high-rise building jobsites. DaVinci can ride an elevator to a remodeling job site. Therefore, Davinci10 can be at the high-rise construction site quickly (immediately) and safely.
2. 3-linkage attachment and quick coupler for in-door construction. Davinci10 is perfect for working in small spaces since it has 3 link mechanism structures, and can swap tools immediately on-site.
3. Electric power and remote-controlled. DaVinci is zero-emission, can travel using battery for 2 hours and be operative for over 8 hours using household outlets (220VAC). Operator can be accident free, dust free, debris free since it can be remote-controlled.
4. Smart control and connected. DaVinci is easy to operate utilizing smart, state-of-the-art control system technology. It can also be connected to the network enabling preventive maintenance.



Indoor travelling



Breaking ceiling



Pass through 800mm door



Digging

Strengths

- Maneuverability in a small space
- Remote control
- Zero emission
- Assemblability/dissembability of attachments to take an elevator
- Smart control

At a Glance

Business Type Manufacturing Established Year 2018 Employee Number 2

Hannover Messe2021

ZEOFILTECH Co.,Ltd.

COMPANY OVERVIEW

Zeofiltech is a company that manufactures and sells filters and its application systems to remove odor generated in laboratories and various industries production processes. We developed and are manufacturing equipment of safekeeping for harmful pollutant, hazardous gas removal and neutralization system, temperature controlled reagent chamber and reagent chamber with ion cluster for the first time in the world. We are an environment-specialized company that strives to improve the productivity and research of enterprises by developing devices that maintain the quality of indoor air in industrial sites and laboratories in a safe and comfortable condition.

PRESIDENT	Min Soo, Lee
CONTACT	Paul Kim
POSITION	Senior Manager
WEBSITE	www.zeofiltech.co.kr
TEL	+82-42-931-2931
FAX	+82-42-931-2933
E-MAIL	sales@zeofil.co.kr
ADDRESS	186-2, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea



Fully enclosed self-circulating Reagent cabinet (ZEO-SN142)

1. Fully enclosed, Self-circulating system that the air inside the reagent cabinet is not discharged to the outside
2. Hydrodynamic Design
3. Hybrid Filtering System : KASSIA Module (Ion-Cluster)+Filter
4. 7 inch touch screen (VOCs, Temperature, Humidity display)
 - 4 digit password door open / close on the touch screen
 - Data storage function by USB
 - Ion cluster lifetime alarm display / Fan malfunction check alarm display
5. Convenience Function
 - 5 layer shelves (Sliding type / Height adjustable)
 - Auto caster : Balanced and height adjustable wheels with locking function



Stackable Reagent cabinet (CUBE-A)

Its small size is perfect for small spaces. Can be assembled without tools, using a one-touch

1. 4.3 inch touch screen
 - 4 digit password door open / close on the touch screen
 - Temperature, Humidity, and VOCs concentration display
2. Convenience function
 - 2 layer shelves (Sliding type / Height adjustable)
3. Hybrid Filtering System : KASSIA Module (Ion cluster)+Filter

At a Glance

Business Type	Manufacturing	Established Year	2005	Annual Sales	USD 4,444,000	Export Amount	USD 10,000
Employee Number	20	Certifications	CE certification, ISO 9001, ISO 14001				

Major Customers

- **Korea** : Samsung, LG chemical, Coca cola, Lotte chemical, SK innovation, Toray chemical, Merck, Posco, Dow chemical, BASF, Hanwha chemical, Government institute, University
- **Oversales** : Asia dealers or companies

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KCC Co., Ltd.

COMPANY OVERVIEW

KCC is a manufacturing company since 1992 that produces pneumatic and hydraulic equipment (cylinder, valve, FRL, gripper, vacuum unit etc.) used in industrial automation from automatic doors to automobiles, tooling machines, industrial robots, etc. KCC also made a huge investment in R&D to develop new products and improve our products for better quality from time to time. We also have experienced employees at service to provide the right product for customer needs. Our good quality, short lead time and excellent service have been recognizing by most of our users not only in Korea but all around the world.

PRESIDENT	Dukgyu Park
CONTACT	Sohyun Lee
POSITION	Manager
WEBSITE	www.kccpr.co.kr/en
TEL	+82 (0)2 4224 9899(Rep.) ext. 4007
FAX	+82 (0)2 2679 8924
E-MAIL	sales@kccpr.com
ADDRESS	A-133ho, HanSung B/D, 51, Gyeongin-ro 55-gil, Guro-gu, Seoul, Republic of Korea



1. Pneumatic Cylinder

- Various pneumatic cylinders from small to large, compact, guide, low friction, booster and so on.
- Adopting advanced materials, it boasts strong durability with smooth movement, and the improved bushing prevents rod sag and to ensure a long life of the product.



2. Hydraulic Cylinder

- Various hydraulic cylinders such as high pressure, steel, telescopic, compact, rotary, hydraulic equipment and so on.
- It can be widely used in manufacturing process automation facilities, especially in machinery, electronics, steel facilities, transfer lines and so on.



3. Pneumatic Valve

- Various pneumatic valves such as solenoid, operation, mechanical, logic, check, manual, foot, booster and so on.
- Fast and precise position control is possible with improved response speed, and long life of the product is guaranteed with excellent durability.



4. Air Preparation (F.R.L)

- Filter-regulator-lubricator lines that can be capable of securing large flow and responding to various grades of filtration.
- Excellent durability along with excellent pressure characteristics ensure long product life. In addition, it is possible to secure a large flow rate and respond to various grades of filtration.

4. Gripper

- Grippers that can handle various types such as parallel opening/closing, angle opening/closing, and wide type.
- Long working distance of Jaw&Plunger realizes stable operation, and the precise detection dog structure makes it easy to adjust the position.
- High hardness is secured through reinforced post-treatment, ensuring excellent durability and long life cycle.

At a Glance

Business Type	Manufacture	Established Year	1992	Employee Number	180	Certifications	ISO 9001, ISO14001, R Mark, CE certification, KOTRA Global Brand Certificate
R&D Employee	16	Annual Sales	USD\$ 33,000,000	Export Amount	USD\$ 2,000,000		

Major Customers

- **Korea** : 100(Samsung Electronics, Samsung SDI, Hwacheon Machine Tool, YUDO, Seoul Matro, Hyundai Steel, Kia Motors, Hyundai Motors, POSCO, Mitsubishi Heavy Industries, Thermal Power Plant)
- **Oversales** : 20

CHAPTER

02

Digital Ecosystems

Dae sung

MS TECH Co., Ltd.

INFINIQ

APULSE TECHNOLOGY Co., Ltd.

TPNET Co., Ltd.

TECH ON VISION Co., Ltd.

SNE

ulalaLAB.Inc.

Soo Co., Ltd.

UDMTEK Co., Ltd.

AUTOSEMANTICS, INC.

NEST FIELD Co., Ltd.

WISECONN Co., Ltd.

Hannover Messe2021

DAESUNG

PRESIDENT Hyuk Jeong

CONTACT JISOO SON

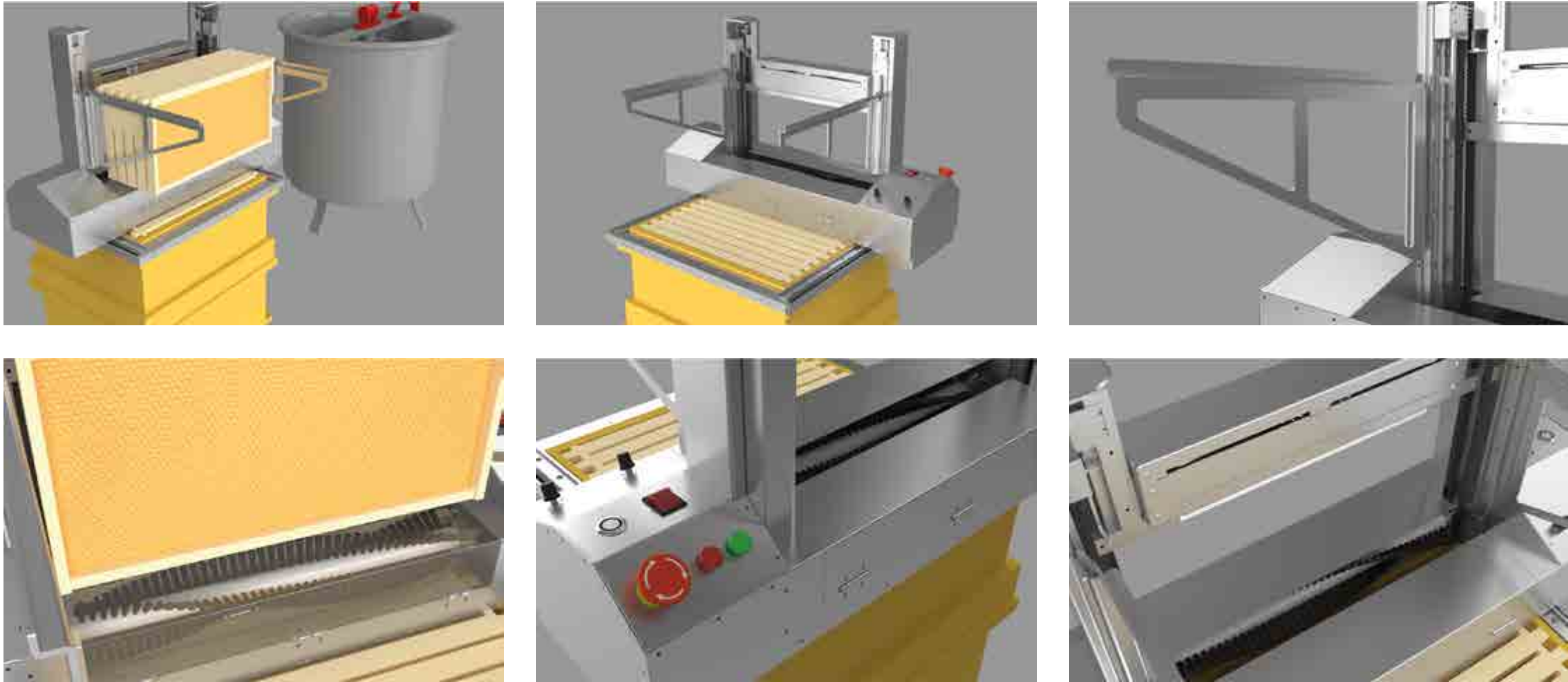
POSITION PR MANAGER

WEBSITE www.smarthive.co.kr

TEL +82-70-4354-4504

E-MAIL ceo@smarthive.co.kr

ADDRESS 109, Ballyong-ro, Deokjin-gu, Jeonju-si, Jeollabuk-do, Republic of Korea



Strengths

- **Hive Controller** | Simple interface is easy to use for both novice and expert beekeepersStainless steel Valves and AL Die Casting Body
- By automating repetitive tasks labor requirements are reduced
- Process automation also reduces the time required during harvest, allowing for larger operations to be managed by the same number of people
- Makes bee removal safe and easy, reducing stress on the hive
- Automated bee removal makes beekeeping more accessible to those nervous about handling bees during harvest

At a Glance

Established Year
2016

Employee Number
14

Certifications

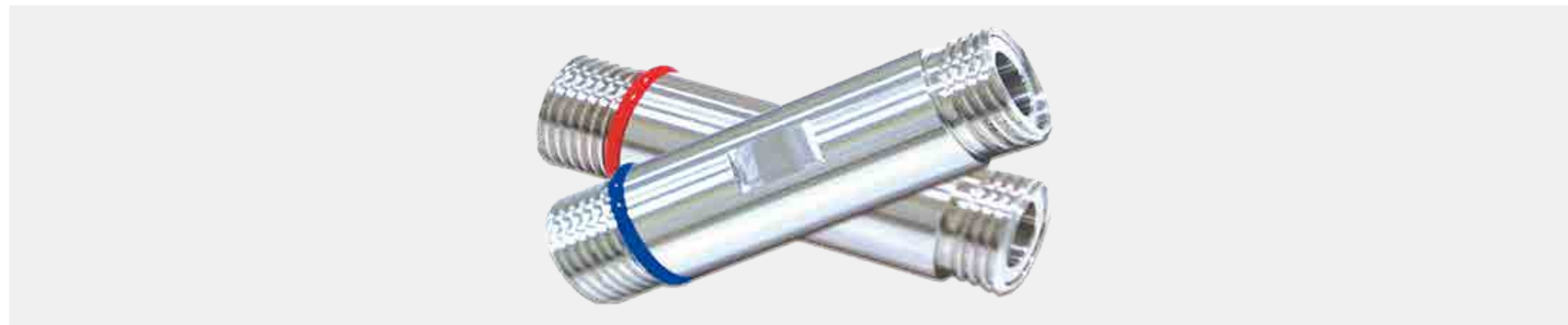
- CES Innovation Awards Honoree
 - Venture Company Confirmation
 - Certification of New Technology – Ministry of Agriculture, Food and Rural Affairs (MAFRA)
 - Selected as Good Invention – Korea Invention Promotion Association
 - Selected as Innovated Procurement Product – Public Procurement Service (Korea)
 - Grand Prize for Solar Convergence Creative Innovation Contest
- Ministry of Agriculture, Food and Rural Affairs, Entrepreneurship Contest
 - Jeonbuk Creative Economy Innovation Center
 - ICT Smart Device National Competition Excellence Award
 - 2017 Midas Startup Award
 - Encouragement Prize at the Idea Contest of the Ministry of Food, Agriculture and Fisheries
 - Idea Innovation Award, Jeonbuk Creative Economy Innovation Center

MS TECH Co., Ltd.

COMPANY OVERVIEW

A Healthy and Pleasant Life, Better Products, Richer Lives, Happier Tomorrow

PRESIDENT	Baek Jong Ho
CONTACT	Baek Kang Hyeon
POSITION	Assistant Manager
WEBSITE	www.mstsaver.com
TEL	+82 041-585-2065
FAX	+82 041-585-2066
E-MAIL	dlawnsanr2000@naver.com
ADDRESS	63 Jijokhyang-gil, Seonghwan-eup, Cheoan-si, Chungcheongnam-do



I-Valve It is located between water plumbing and sinks, toilets etc. to open and close the water.
I-Valve is a new concept with easy construction, beautiful design and semi-permanent life span



Manual Welding Shop



Orbital Welding Shop



Cleaning Shop

Strengths

- It is resistant to rust and freezing because Made of stainless steel, and has a semi-permanent life.
- Unlike conventional valves, there is no handle, so it can be easily constructed with 360 degrees of rotation.
- It is not rough, it is simple, and it is beautiful with the advantage of stainless steel.

At a Glance

Business Type	Manufacture	Established Year	2016	Employee Number	208-88-00539	Certifications	KC, KTC, Patent, ISO9001, ISO14001
R&D Employee	35	Annual Sales	USD 876,577	Export Amount	USD 2,719		

Major Customers

- Korea** : Construction company, Interior company, government offices , Plumbing company
- Oversales** : Construction company, Interior company, government offices, Plmbing company

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INFINIQ

COMPANY OVERVIEW

"INFINIQ is a specialized company of Data service for AI development & training"

INFINIQ is providing all data services from data collection to annotation and inspection with managed annotation experts. Also, we launched web-based crowdsourcing annotation platform 'My Crowd' based on deep-learning object recognition function.

We have been working with car manufacturers & AD R&D companies for many years and have abundant know-how & experience.

PRESIDENT	Junhyung Park
CONTACT	Jungho Cho
POSITION	Overseas business manager
WEBSITE	http://www.infiniq.co.kr/en/
TEL	+82-2-525-2202
FAX	+82-2-525-0043
E-MAIL	sales@infiniq.co.kr
ADDRESS	186, Gasan digital 1-ro, Geumcheon-gu, Seoul, Republic of Korea



Total AI Data service

- Data Collection [Indoor / Outdoor with vision & 3D LiDAR]
- Data Annotation and GT data [2D / 3D Annotation + 2D & 3D Sensor Fusion]



'My Crowd' - Open crowdsourcing annotation platform

- Web-based crowdsourcing annotation platform 10x faster with magic functions based on deeplearning
- Magic function: Auto Bounding box, Auto Polygon
- Manual annotation: Bounding box, Polygon, Skeleton, Polyline, etc.

Strengths

1. Development of Vision AI with data

INFINIQ is constantly developing Vision AI technologies such as de-identification solution, AI assisted auto labeling, and object detection with abundant data. In de-identification solution, human face, number plates of cars, or any other private information can be recognized and anonymized. Also, we are providing AI training data with more productivity by auto labeling & object detection functions.

2. Abundant know-how & experience for Data annotation

We have the know-how and experience between 2D vision data and 3D LiDAR data. We have been providing accurate synchronization work for your sensor fusion project in Autonomous driving field.

At a Glance

Business Type	AI Data Service	Established Year	2005	Employee Number	340	Certifications	ISO 27001
R&D Employee	Over 30	Annual Sales	USD 23,239,151 (2020.12)				

Major Customers

· Hyundai Motors, Samsung, SK Telecom, LG Electronics, Qualcomm, Hyundai MOBIS

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APULSE TECHNOLOGY Co., Ltd.

COMPANY OVERVIEW

Apulsetechnology is a RFID company manufacturing RFID readers. With over 20 years of RFID business experience in the field, we make the most efficient RFID handheld reader providing customers high-end technology for the IoT world.

PRESIDENT	NJ KIM
CONTACT	Christy Cho
POSITION	Global Sales Manager
WEBSITE	www.apulsetech.com
TEL	+82 70-4222-5684
E-MAIL	sales@apulsetech.com
ADDRESS	A-1403, 60, Haan-ro, Gwangmyeong-si, Gyeonggi-do, Republic of Korea zip 14322



A811
All in one RFID reader for user who wants one unit with multiple functions.



A611 _ Gun Type
Handy RFID reader for user who wants small and simple RFID reader



A711
Mobile RFID reader for user who wants to use RFID function with their mobile device.



A712
Mobile RFID reader with selectable Antenna for user who wants to choose from different types of antennas

Strengths

- Good design with Quality product in RFID

At a Glance

Business Type Manufacturer Established Year 2019 Certifications FCC, CE, KC, CCC, MIC, ISO 9001, ISO 14001, ISO 45001

Major Customers

- **Korea** : Samsung, Hyundai E&C, SK E&C, Ministry of National Defense, Korea Atomic Energy Research institute, Posco, OB, CJ logistics

Hannover Messe2021

TPNET Co., Ltd.

PRESIDENT Bonghyun An
CONTACT Eunjun Yae
POSITION Director
WEBSITE www.akois.net
TEL +82-31-745-0025
FAX +82-31-745-0325
E-MAIL androyws@naver.com
ADDRESS #314, Biz, 124, Sagimakgol-ro, Jungwon-gu, Seongnam-si, Gyeonggi-do, South KOREA (ZIP CODE 13207)



The beginning of Perfect Baby Care. The must - have item for infant care.

Breathing monitor

· Can monitor the baby's breathing and every tiny movement all day long.

Rollover monitor

· Can prevent an accident if their baby can't his/her head up yet or wakes at night.

Diaper monitor

· Can prevent diaper rash by letting you know when to change the diaper.

At a Glance

Business Type	Manufacturer	Established Year	2012	Employee Number	10	Certifications	CE, FCC, TELEC, KC, ROHS, TRADEMARK
R&D Employee	5	Annual Sales	2,000,000 USD	Export Amount	500,000 USD		

Major Customers

- **Korea** : Coupang, Lotte Mall, CJ Mall, Wemakeprice, Tmon, 11st, etc
- **Oversales** : The USA, JAPAN, HONGKONG, CHINA, etc

Hannover Messe2021

TECHONVISION Co., Ltd.

PRESIDENT

Myoungju Park

CONTACT

Augustin Cho

POSITION

Export Manager

WEBSITE

www.techonvision.com

TEL

+82 2 2697 8968

FAX

+82 2 2697 8978

E-MAIL

export@techonvision.com


ADDRESS

#2009, Tower B, D-Polis, 606 Seobusaet-gil, Geumcheon-gu, Seoul, 08504, Republic of Korea


Products

Digital Ecosystems

KOREA



TOV-270H (27 inch LED)
Basically Divisio monitor (Model: TOV-270H, 27 inch LED) supports TWO different computers (or one computer and one smart phone) simultaneously and the users may use TWO different computers with one monitor, one keyboard, one mouse for internet access and intranet access (no internet) for instance. Divisio monitor is great for office work, network security and work efficiency.



TOV-500M (50 inch LED)
We do have bigger monitor, TOV-500M with 50 inch LED. TOV-500M supports 4 different PCs with one keyboard and one mouse. The screen of TOV-500M can be full screen, split, and quad for 4 PCs.

Strengths

· In order to enhance the network security, the company or user should invest huge money and install very expensive equipments. However, Since Divisio monitor provides the physical network separation, it brings the users easy installation and very economy solution for network security.

At a Glance

Business Type

Manufacturer

Established Year

2016

Employee Number

7

Certifications

CE, FCC, KC, Patents

R&D Employee

3

Annual Sales

USD 1.3 Million

Major Customers

· **Korea** : Local authorities, Network security companies, Factories, Plants, Software development companies, government, private companies

· **Oversales** : Monitor wholesaler, monitor manufacturer, network security companies, monitor importer, trading companies

kotra

Korea Trade-Investment Promotion Agency

KEA

Hannover Messe2021

SNE

COMPANY OVERVIEW

The reason we're special is because of our discriminatory thinking and behavior
 With constant effort and internal innovation, SNE has always challenged.
 The challenging company, SNE, is now trying to create another differentiation.
 I'm preparing for the future.
 SNE is the key to the rapidly changing IOT 5G Network environment.
 It is a competitive company with deployment technology.
 We help you achieve a successful business and
 we are committed to becoming your true partner.

PRESIDENT Andy Hwang

TEL +82 53 291 6022 , +82 10 5235 1499 (C.P)

E-MAIL jungboga@naver.com

ADDRESS 56 Dongbyeon-ro 24-gil, Buk-gu, Daegu



Communication



Electric Vehicle Charging Station



Network, Program



LED convergence

Strengths

- Technology related to base stations, relay stations, and electric vehicle charging businesses
- Smart LED Convergence
- Suggestion of work that fits the estimated space for each machine type
- LG Semiconductor Business Department Establishing Electrical Equipment/Electric Vehicle Charging Station
- SK Telecom repeter /base station construction
- Establishment of LG Telecom repeter , in building and wireless communication
- Program/Data Center Construction

At a Glance

Business Type
 Service

Established Year
 2009

Major Customers

- Korea : SK,KT,LG

Hannover Messe2021

ulalaLAB Inc.

COMPANY OVERVIEW

With ulalaLAB owned technology such as IIoT, big data, AI, and machine learning technology, ulalaLAB enables clients to promptly and accurately collect, analyze and forecast data to implement data-driven businesses such as smart factories.

PRESIDENT	Hakju, Kang
CONTACT	Gary Noh
POSITION	Manager
WEBSITE	Product : http://www.wimfactory.com/en Company : http://www.ulalalab.com/
TEL	+82-2-873-0010
E-MAIL	garynoh@ulalalab.com
ADDRESS	506~507, 250, Hagui-ro, Dongan-gu, Anyang-si, Gyeonggi-do, Rep. of Korea, 14056



WimFactory

- WimFactory offers a smart factory total management solution. Based on Big-data, machine learning, and AI technology, WimFactory collects, analyzes, and visualizes data and enables users to optimize the manufacturing process and solve several problems in a proactive way, instead of a reactive way.
- WimFactory consists of Wicon(Smart factory IoT device) and Wim-X(Smart factory total management platform).
- By simply linking with commercial sensors or PLC, Wicon automatically collects and transmits real-time data to the cloud. Wim-X enables users to operate the field efficiently by providing numerous functions such as monitoring, event alarming, forecasting, and offering analysis reports.

Strengths

1. Data processing speed : WimFactory is running based on ulalaLAB owned machine learning engine, called Snipe. With its machine learning, server architecture, and algorithm technology, it processes a large amount of real-time data at a high speed(300K data per second).
2. High accuracy in analyzing : The accuracy rate of the algorithm at the Snipe is 94%(Top 10%). The algorithm was patented in the United States.
3. Economical and easy to install : WimFactory is offered in the form of the Cloud. In addition, Installing WimFactory doesn't require a change of equipment or manufacturing lines.

At a Glance

Business Type	Smart Factory solution, Machine learning/AI, IIoT device	Established Year	2011	Employee Number	31
R&D Employee	17	Annual Sales	\$1,214,618(2020)	Export Amount	\$17,530(2019)
Certifications	16 certifications in and out of Korea Hardware : CE(Europe), FCC(United State), SIRIM(Malaysia), SRRC(China), KC(Korea) Software : Good Software Lv.1, KOLAS Patents : 54 patents in and out of Korea				

Major Customers

- **Korea** : OTIS Elevator Korea, Hyundai Steel, Samwha Paint, Hanwha Powersystem.
- **Oversales** : Nike, Adidas(Shoes), Sime Darby(Palm oil), Energy Holdings(Oil pump jack/USA)

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SOO Co., Ltd.

COMPANY OVERVIEW


We are a technology-intensive venture company founded on July 20, 2016. Our company is a company affiliated laboratory certified company and a company certified by a company specializing in material parts, which operates the company in accordance with ISO9001 and ISO14001, and has 1 design registration certificate, 2 trademark registration certificates, 3 patent registrations, and 7 patent applications. We have 3 PCT international applications. In addition, we have obtained 2 KFI certifications for digestion performance and 7 KFI test reports for 119 product series, and received a total of 2 awards (2018 Investment Contest Excellence Award, 2019 Safety New Technology Competition-Grand Prize)there is. We do our best to provide high quality products that satisfy all customers through our unique technology and strict production quality control in the rapidly changing world market.

PRESIDENT	Deuk-Kyu, Hwang
CONTACT	Deuk-Kyu, Hwang
POSITION	CEO
WEBSITE	www.m2k.co.kr
TEL	+82 51-972-0305
FAX	+82 51-972-0377
E-MAIL	miraclesoo@miraclesoo.com
ADDRESS	B-4, Noksan standard type factory, 41, Noksansandan 261-ro 74beon-gil, Gangseo-gu, Busan, Korea

Products

Digital Ecosystems

KOREA




119 일반용 마이크로캡슐

119 페인트용 마이크로캡슐


119 nano microcapsule

In case fire breaks out, microcapsule which contains extinguishing agent detects the heat of fire and emits extinguishing agent to suppress fire autonomously.




119 ROPE

119 rope is filled with microcapsule which contains extinguishing agent. This product is to be installed in enclosed space like electricity distribution panel and control box.



119 STICKER

Microcapsule which contains extinguishing agent has been applied to 119 sticker. For use, remove adhesive film and attach the product at the upper side of interior space lilke electricity distribution panel and control box.



119 PAINT

Mix paint and microcapsules in a ratio of 3.5 to 1 and apply to the upper side of interior space lilke electricity distribution panel and control box.

Strengths

The 119 product series is a product for automatically extinguish initial fire that adds a fire-fighting function to the "sticker, rope, paint" product itself. When a fire breaks out, a special pigment mass in the tissue reacts to heat inside the enclosed small space and extinguishes a fire extinguishing agent, cools it to the ignition source (space), shuts off oxygen, and accelerates the fire. It is a product to suppress.

At a Glance

Business Type

Manufacture

Established Year

2016

Certifications

ISO9001, ISO14001

Major Customers

· A company that uses switchboards and switchboards. Enterprises with ESS supplies (Energy Storage System)

kotra

Korea Trade-Investment Promotion Agency

KOIIA

KOREA INDUSTRY INTELLIGENTIZATION ASSOCIATION

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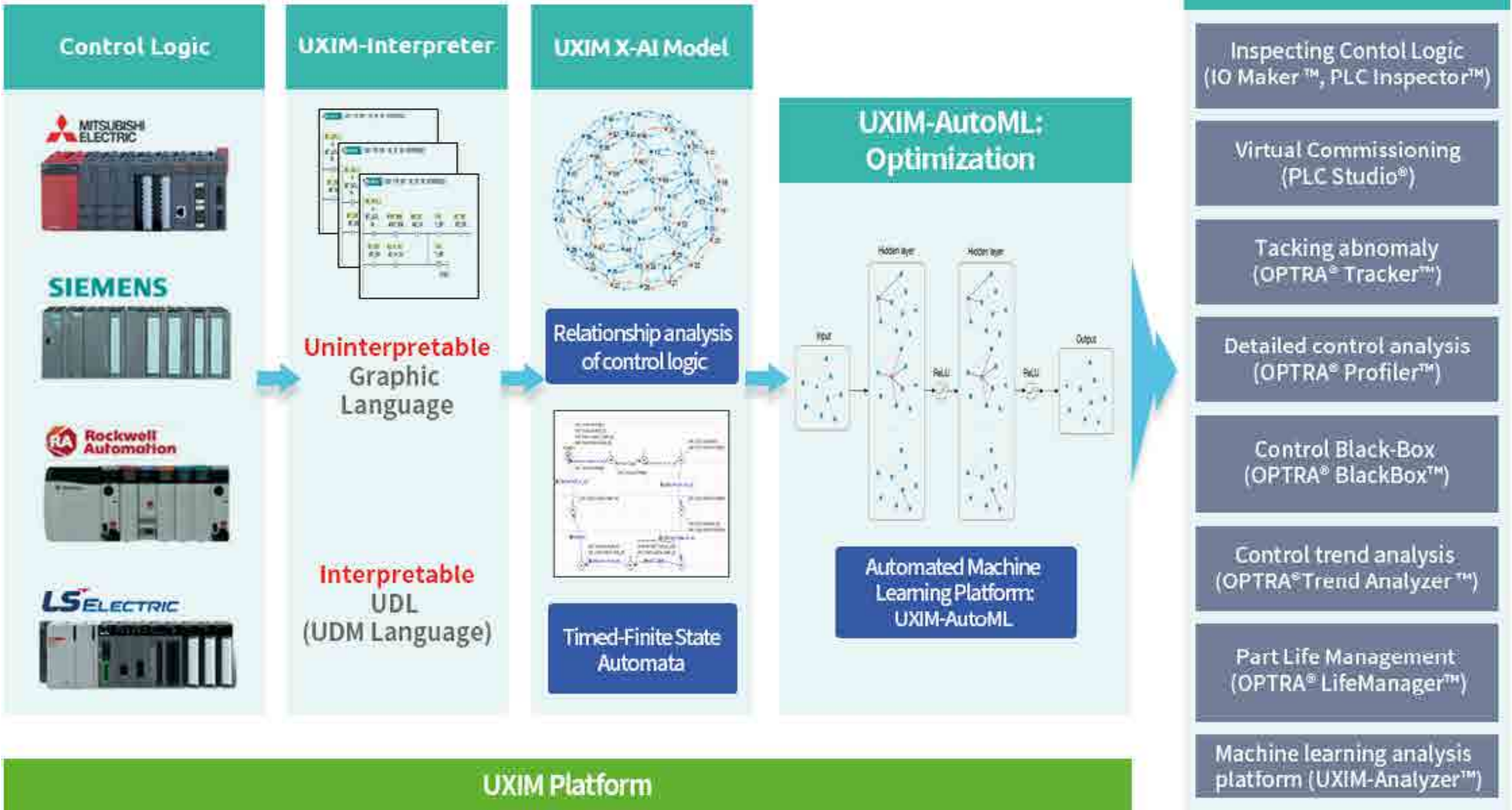
UDMTEK

PRESIDENT GiNam Wang
CONTACT Namki Kim
POSITION Manager
WEBSITE www.udmtek.com
TEL +82-2-1661-1888
FAX +82-31-601-6166
E-MAIL udmtek@udmtek.com, namki94@udmtek.com
ADDRESS ACE Gwanggyo Tower2 1405~1408, 91 Changnyong-daero 256beon-gil Yeongtong-gu, Suwon-si, Gyeonggi-do, Korea

Products Digital Ecosystems

KOREA

Provides scalable solutions based on UXIM (Unified eXplainable Intelligence Model) Platform



Strengths

UDMTEK MLP(Machine language Processing) based
UDMTEK will do its best to provide next-generation new value in the fields of the industry 4.0, manufacturing AI, digital twin, and smart factory through the development of machine language processing technology different from the existing natural language processing.

At a Glance

Business Type Software development **Established Year** 2007 **Employee Number** 47 **R&D Employee** 27
Annual Sales 7.5 billion

Major Customers

· **Korea** : HYUNDAI, KIA, LG, PyeongHwa Automotive, Doosan, Dong yang piston, Telstar, Navien, LS

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AUTOSEMAN^{ICS} Inc.

COMPANY OVERVIEW

AUTOSEMAN^{ICS} is an industrial AI company that develops cutting-edge artificial intelligence with leading companies in various fields.
We are a key partner who consults and builds the artificial intelligence technology in the fields of Smart Energy, Smart Factory, Smart Mobility to help you stay competitive in the era of the 4th Industrial Revolution.

PRESIDENT	Byung Cheol Jung
CONTACT	Yeon Jun Yu
POSITION	Assistant Manager
WEBSITE	www.autosemantics.co.kr
TEL	+821096372007
FAX	+820222820507
E-MAIL	yjy@autosemantics.com
ADDRESS	#707 77, Seongsuil-ro, Seongdong-gu, Seoul, Republic of Korea



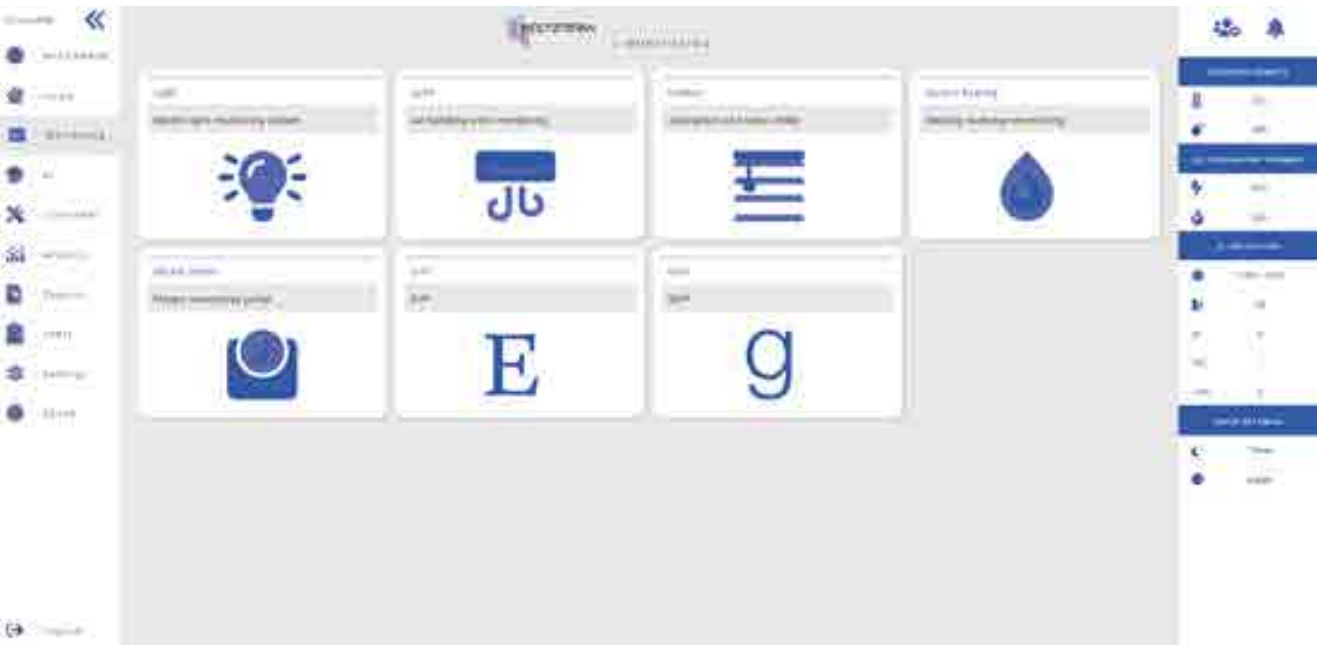
AI



Analysis



Dashboard



Monitoring

At a Glance

Business Type	AI Software	Established Year	2016	Employee Number	23	R&D Employee	19	Annual Sales	USD 438,212
Patents	(Registration) How to Diagnose Car Health with Deep Learning (Registration) Sound-based water leak diagnosis method through deep learning (Registration) Diagnostic method for cells using deep learning (Registration) Wind power generation device with artificial intelligence including deep learning (Application) Transformer Diagnostic Method Using Deep Learning (Application) To determine the status of sewer pipes using deep learning (Application) Health diagnosis and life prediction devices and methods for ESS batteries (Application) Deep Learning-Based Building Energy Demand Forecasting and Production Optimization Techniques								

Major Customers

· Korea : Hyundai Motors, Samsung Electronics, Shinsegae Department Stores

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NESTFIELD Co., Ltd.

COMPANY OVERVIEW

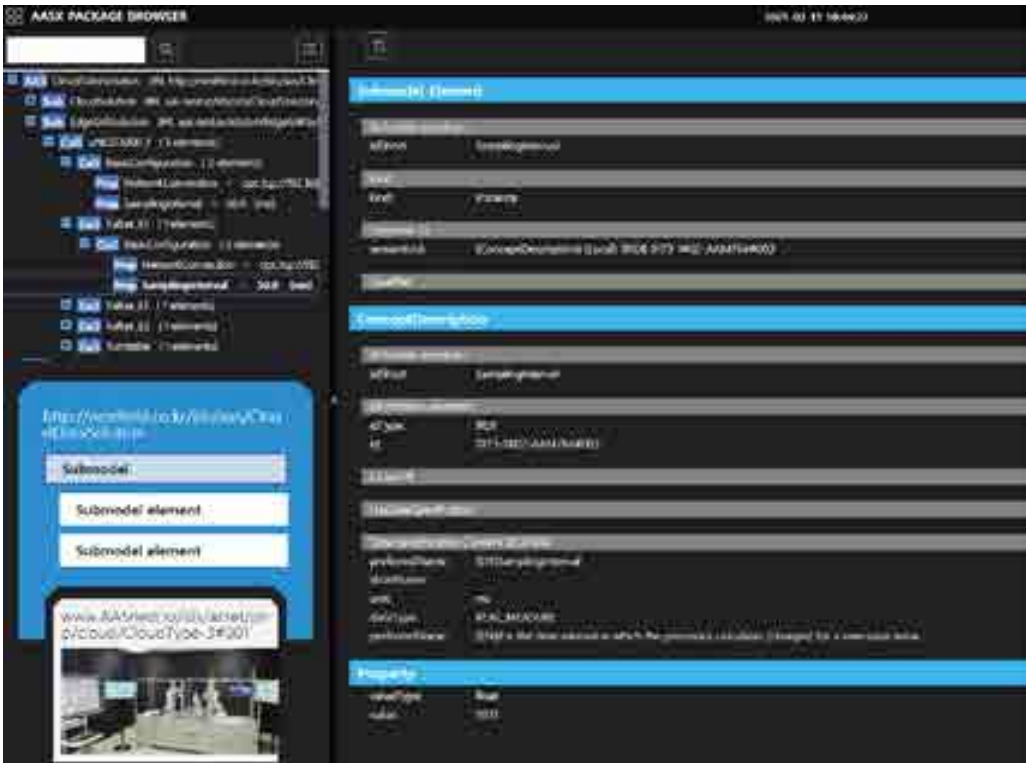
Nestfield is taking a step closer to the Industry 4.0 smart factory by leveraging AAS technology. A big technology change in manufacturing is the future we are dreaming now. Known as Smart Manufacturing and Industry 4.0. Not just only AAS solution but also others are being prepared by Nestfield. TSN solution will be critical in modern and future manufacturing and this TSN solution is being developed actively now. Solutions with TSN and AAS technology, by Nestfield, will be soon implemented in electric vehicle industry domain in Korea and this will show again Nestfield's leadership in Industry 4.0 technology.

PRESIDENT	Yu-Chul Kim
CONTACT	Namhyeok Kim
POSITION	Assistant Manager
WEBSITE	http://www.nestfield.co.kr/
TEL	+82-31-364-8061
FAX	+82-31-364-8062
E-MAIL	mocca77@nestfield.co.kr
ADDRESS	402 Room, RIT Center, 705, Haeon-ro, Sangnok-gu, Ansan-si, Gyeonggi-do, Republic of Korea



Plug & Produce Demo System

- Plug&Produce demo system developed by Hanyang University and Nestfield Co., Ltd. provides a prototype implementation for the use case “Plug and Produce for Field Devices” derived from the Plattform Industrie 4.0 application scenario “Adaptable Factory”.
- Asset Administration Shell (AAS) is a core concept for implementing this strategy: it is a digital twin of the Asset. This could help plant and factory owners making production system much more flexible than today.
- End-customers could benefit from the possibilities of more individualized products because of faster commissioning time and decreased time to market.



Asset Administration Shell (AAS) Solution

Strengths

- Generally, TSN provides benefits from four aspects i.e., time synchronization, bounded latency, ultra-reliability, and network resource management. Towards the Industry 4.0-based smart manufacturing system, Hanyang University and Nestfield developed a refined TSN-integrated architecture referencing the network model of IEEE Std Qcc.

At a Glance

Business Type	Manufacturing business	Established Year	2012	Employee Number	18	Certifications	ISO9001, INO-BIZ
R&D Employee	9	Annual Sales	KRW 3,068,562,402 (2020)	Export Amount	178,828 EA (2020)		

Major Customers

- Korea : HDC IControls, Cheil Electric Wiring Devices Co., Ltd.

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WISECONN
Co., Ltd.

PRESIDENT Se-Hyeong Jeon
CONTACT Se-Yeong Jin
POSITION Senior Staff
WEBSITE www.wiseconn.co.kr
TEL +82-42-936-0527
FAX +82-42-936-0616
E-MAIL wiseconn@wiseconn.co.kr
ADDRESS 2F, 11-8, Techno 1ro, Yuseong gu, Daejeon, Korea



<PRIO A100 : Indoor Air quality monitoring system>

- Prio-A100 is IoT based air condition monitoring system used 7 sensors such as Temp, Humidity, CO, CO2, VOC, PM2.5.
- Prio-A100 is available to use real time anywhere for measuring the air conditions as a compact size.
- The measured data is saved on database server and sers are able to check anywhere & anytime the environment's condition that installed the device using Web browser or PC Program.



<PRIO A1 : Simple TEMP, humidity, CO2 meter>

- Prio-A1 displays temperature, humidity, carbon dioxide status as a real time.
- Because Prio-A1 uses OLED, the driver can easily check the status of values.
- The Prio-A1 is a compact product that can be attached to the dashboard inside the vehicle and provides an alarm function based on the CO2 concentration, allowing the driver to know the status without checking the data.

At a Glance

Business Type	Manufacturing	Established Year	2017	Employee Number	4	Certifications	KC, CE, FCC, RoHS
R&D Employee	3	Annual Sales	KRW 1,100,000	Export Amount	\$1,966		

Major Customers

- **Korea** : LOTTE rental, KIER(Korea Institute Of Energy Research), NNFC(National Nanofab Center), KRICT(Korea Research Institute Of Chemical Technology)
- **Oversales** : VIEROL AG