

# Excellence Delivered:

Empowering Global Partners through Korean  
Manufacturing Expertise



## Why Partner with OSANG Healthcare?

OSANG Healthcare is investing in innovations, development of Korean Biotechnology, and constantly expanding the scale of its activities providing patients with integrated diabetes solutions.

The company has been intensively working to introduce a device that reads 7 parameters, meters for hospital use, CGM(Continuous Glucose Monitoring System) for preventive, and care management for diabetics.

Being recognized in our Impactful achievements in the field of IVD, OHC has been awarded the opportunity to be part of the Korean government funded Bio-Cluster in Incheon's Smart City Song-Do.

"Our Mission is to allocate long lasting partnerships that drive Globally Recognized Korean Medical Devices into the center of World Leading Diabetes Platform. Through our newly Korean government funded R&D and Automated Manufacturing facility in Incheon, we aim to manufacture and provide industry leading solutions to our Global Partners."

CEO of OSANG Healthcare  
Ph.D Seung Eok Hong

*Seung Eok Hong*





**OHC** OSANG  
HEALTHCARE

**343 Manufacturing Specialists**

**Enhance Your Everyday**

# OEM Experience



Supporting the Global Efforts of Medical Diagnostics, through our Industry Leading Partners.



## 14 Years of Strong Partnership

- Installed over 1.4mil meters in Germany, UK, Belguim, Romania, Greece, Bulgaria, Australia, China, Malaysia, and more
- Supplied more than 700 mil Test Strips

## 14 Years of Strong Partnership

- Installed 7,000 Analyzers Globally in Sweden, Saudi Arabia, India, Mexico, Germany, Japan, Switzerland, and more
- Supplied over 6 mil Test Cartridges

## 8 Years of Strong Partnership

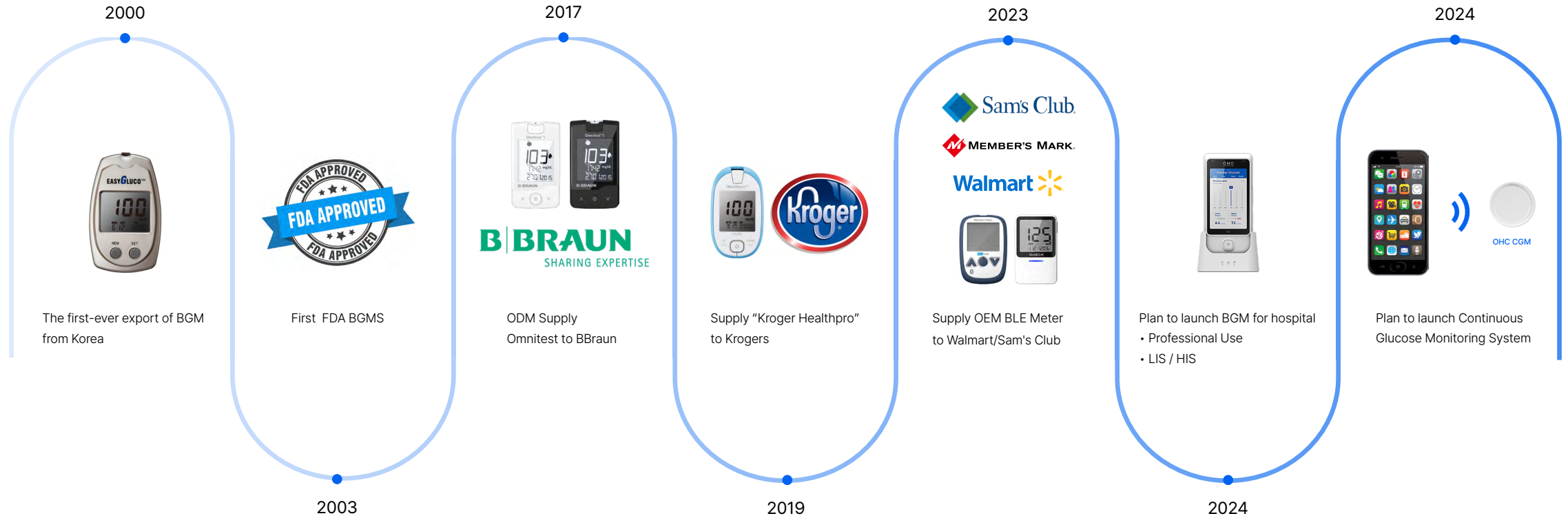
- Thousand of Meters in over 3000 retail stores
- Located in 16+ Kroger owned Retail Stores Nation wide
- Supplied more than 100 mil Test Strips

## New Partnerships

- Launched in over 600 Sam's Club locations in the USA.
- To be released in over 4,600 Walmart Stores Nation wide
- Walmart's first ever premium Diabetics Bundle and Refill Kits

## Our BGMS History

- Evolving BGM towards HOSPITAL HIS (Hospital Information System) / LIS (Laboratory Information System)
- CGM to be manufactured by Smart Factory



## Production Capacity

### Over 3Million Meters per year

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- Current : 3M/Year
- Cost reduction by a Streamlined Supply Chain and Outsourcing Low-Cost Meters



### 4.1 Billion Tests per year

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- Current: 49M Boxes of 50T/Year
- Downstream Investment up to 82M Boxes of 50T

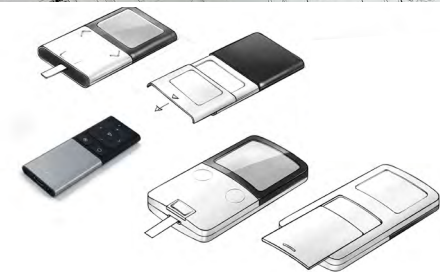
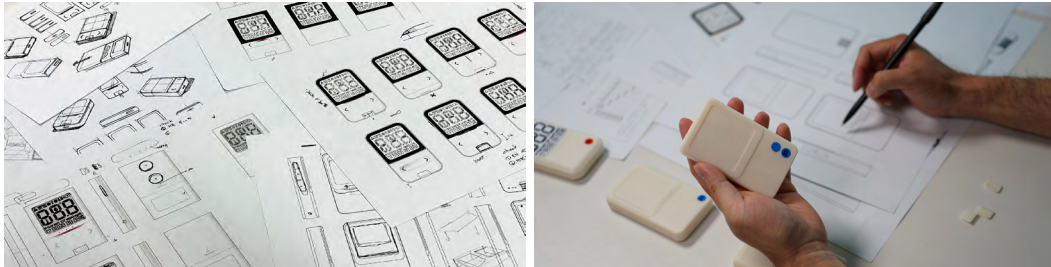


# Meter Start to Finish

Improving Meter Precision through Automated Calibration and Manufacturing Process

## Concept & Design > Final Development to Custom Manufacturing

- From conception to final design OHC provides our experience through the meter
- Custom and flexible, we work and create together with our clients



## Automated Production & Calibration Operation

- BGM Meter production Line : Annual production capacity of 3,000,000 units.
- Improvement of instrument precision through automation calibration and manufacturing process.



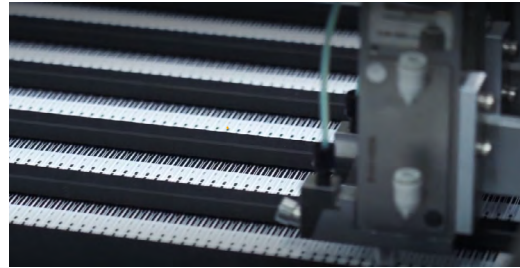
## Full Cycle of Test Strip Production

- Production of high-quality products through the management of a BGM Strip production line in a Clean Room with a Class 100,000 environment.
- Full automation and implementation of VISION inspection at each process to prevent contamination and enhance accuracy in order to minimize defects.
- Integrating our patented auto-coding technology and UV color printing coding system in our automated manufacturing process.

### Fully Automatic Manufacturing



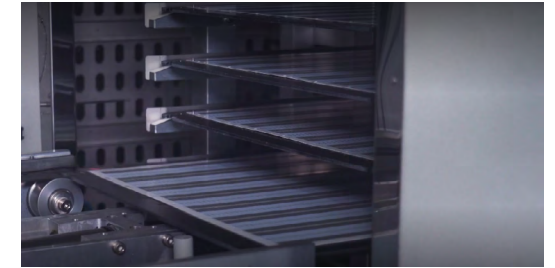
Dispensing



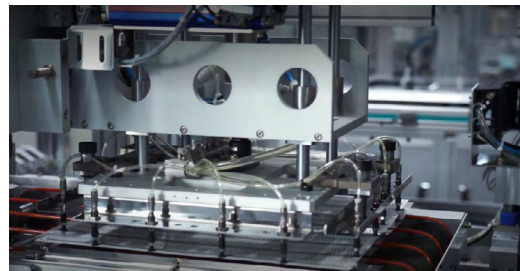
Vision inspection



Control drying



Cover pasting



UV printing



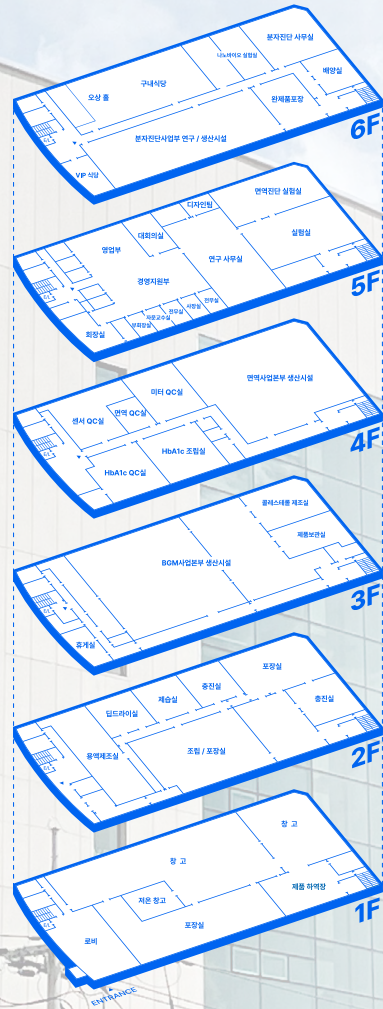
Slitting & Bottling





# Contact Manufacturing Services-OEM/ODM

## Vertically Integrated In-House Production



6F Molecular Diagnostic R&D Center

5F Business Development & Administrative Hub.

### 4F BGM QC/ Meter Production Line

- QC Area: Accurate verification through rigorous temperature and humidity control
- Meter Production: Meter calibration and labeling

### 3F BGM Strip Production Line

- Strip Production : Class clean room 100,000 class
- Tight temperature and humidity control for quality uniformity

2F Globally recognized Automated Immunoassay Production

### 1F Packaging Production Line/Warehouse

- Packaging production: Full automation from label application to carton box packaging
- Warehouse: Establishment and operation of SCM including purchasing, receiving, and shipping

RIQAS Approved



## FDA/MFDS GMP QA/QC

- QC laboratory (BGM/HbA1c/Immunoassay/Molecular)
- Multiple QC Processes in Every Manufacturing Stages.

## Quality Assurance

- Release of Diagnostics Devices to the Globe(FDA/CE)
- Release of Molecular Diagnostics to Government and Reference Laboratories

## Validation of analytical methods

- Equipment Reliability in Place by RIQAS Program by RANDOX
- Conducting Calibration Using Real Diabetic Patients

# 24/7 Technical & Customer Support

Take immediate actions until problem is completely solved



## 95% < 2Days / 10Days >

Complaint Report:  
Issue C/S Report in 10 Days  
for 95%+ Complaints  
General Inquiry  
Respond in 2 Days  
for 95%+ Inquiries



## 24/7 Whenever Wherever

Send Employees to Site for Root Cause Analysis and  
Resolution Finding  
  
Product Training  
Troubleshooting Guides  
Leaflet/Marketing Materials



## 100% Warranty

100% Warranty for Products  
with Quality Issues Made  
within Warranty Period

# From Type 1 to Type 2, We Deliver Integrated Diabetes Care



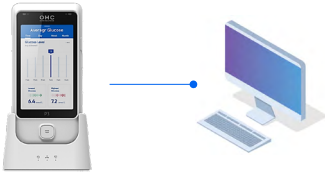
## Self Monitoring

7 Parameters in One Device  
(Glucose, Ketone, Lactate, Cholesterol, Hemoglobin, and Uric Acid)



## A1c

Professionals confirm average 2 to 3 month glucose level



## Remote Patient Monitoring

In partnership with HandySoft/MavenCloud Connectivity to LIS (Laboratory Information System) where professionals remotely access and care diabetes



## Preventive and Real-time Care Platform

Enable patients to prevent and manage Diabetes health real-time with CGM and AI enabled care platform

# Introduction to OHC

# Who We Are GROUP OSANG



## Purpose

We aim to promote human health through innovative diagnostic technologies and products, realizing a world where "Technology for Everyone" simplifies the measurement of all diseases.

## Foundations

Founded in 1996, OSANG Healthcare (OHC), formerly known as Infopia, was the first Korean Medical Device Manufacturer to develop, register, and globally introduce a Korean BGMS to combat Diabetes as a chronic illness. OHC's products are in stores hospitals etc - By being the first FDA EUA approved COVID-19 MDx OHC has made a significant impact in the global diagnostic field.



Handysoft's subsidiary, Maven cloud, is an exclusive supplier of AI software platform AZURE as a partner of Microsoft.



We will be launching a cosmetic line utilizing the patented material "JAIEL LITE"



Premium Fruit Packaging



Agricultural Biotech



Thermal Management



Environmental Engineering

# About OHC

## Business area



### Biochemistry Diagnosis

Measuring the substance produced by the body metabolism

- Blood Glucose Monitor
- Hemoglobin A1c Monitor
- Cholesterol Monitor



### Immuno Diagnosis

Measuring a small amount of biomarkers in the blood on immune response in the blood based on immune response



### Molecular Diagnosis

Identifying a disease by extraction, amplification and analysis of genetic material such as DAN, RNA

MarketWatch Press Release  
**Global Glucose Meter Market [2023-2030] | Future Growth Prospects in the Industry - Infopia, FIFTY 50, All Medicus, Bayer, US Diagnostics**  
Published: June 17, 2023 at 6:15 p.m. ET

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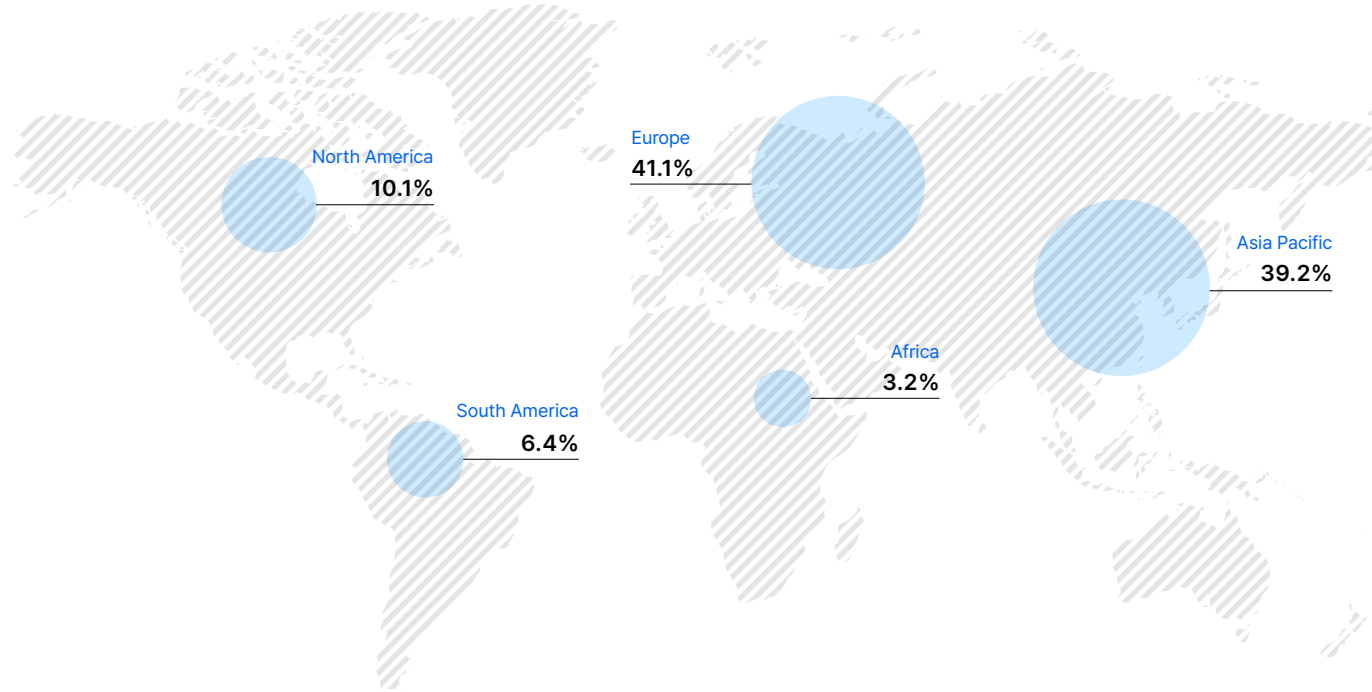
S&P 500	Dow Jones	Nasdaq	Russell 2000	Credit 01	Gold
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+0.14%	+0.41%	+0.01%	+0.01%	+0.21%	+0.01%

ACCESSWIRE

December 21, 2020 3 min read

SEOUL, SOUTH KOREA and SAN DIEGO, CA / ACCESSWIRE / December 21, 2020 / OSANG Healthcare Co., Ltd. ("OSANG" or "OHC"), global manufacturer of medical-grade diagnostic tests and equipment and Nexus Dx, Inc. ("Nexus"), a Spingtec Group company, a leader in innovative biomarker and advanced near patient testing, announced today a "Manufacturing and Supply Agreement" for OHC's "GeneFinder(R) COVID-19 Plus RealAmp Kit" manufactured by Nexus' Run Diagnostics facility.

# Internationally Recognized



## Intellectual Property

	Domestic	Overseas	Total
Patents Completed	14	10	24
Patents In Process	2	10	12
<b>Total</b>	<b>16</b>	<b>20</b>	<b>36</b>

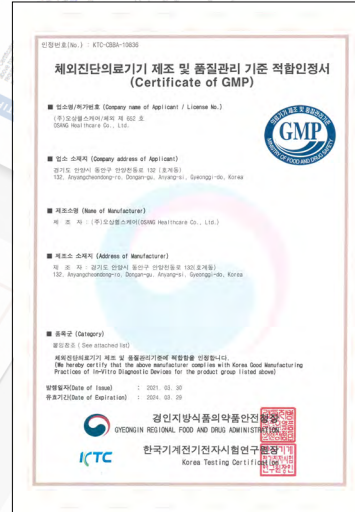
## Licenses and Certificates

<b>CE</b> <hr/> <b>37</b> 	<b>FDA</b> <hr/> <b>21</b> 	<b>MFDS</b> <hr/> <b>47</b> 
<b>ANVISA</b> <hr/> <b>6</b> 	<b>TGA</b> <hr/> <b>2</b> 	<b>MMFA</b> <hr/> <b>18</b> 
<b>HEALTH CANADA</b> <hr/> <b>1</b> 	<b>IVDR</b> <hr/> 	<b>BGM WHO PQ</b> <hr/> 



# QMS Certificates

Additional 20+ external/internal Quality Audits performed each year



Since 2002

ISO 9001

Since 2003

ISO 13485

Since 2007

KOREA GMP

Since 2011

KOREA GMP

Since 2015

MDSAP



# Thank you

[www.osanghc.com](http://www.osanghc.com)

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