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MEK

www.mek-ics.com



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TECHNOLOGY DRIVEN COMPANY IN RESPIRATORY CARE

MEKICS will lead the changes in respiratory care through continuous innovation.

MEK

MEKICS has taken the lead of developing and commercializing ventilators based on Korea's first and unique respiratory technologies

We are proactive in expanding the application of our respiratory care solutions developed by various research activities in order to help more patients. This effort will allow us to expand our top-notch technologies to both hospital and homecare sectors with the presentation of various evidences on how the demographic and environmental changes have effects on respiration and health of the mankind.

MEKICS has a strong belief that product safety and quality of raw materials must in no way be compromised. To this end, we have established internal systems and R&D bases satisfying the quality and safety standards for the functionality of respiratory care products. Those help us correctively understand overseas local market circumstances and build a technologically cooperative agent system, thereby contributing to MEKICS evolving into a global player in the respiration care market.

Company Name	MEKICS Co., Ltd.
CEO	Jong Cheol Kim
Establishment	Nov.26, 1998
Mission	Contribute to social development through products and services
Main Business	Respiratory care device and patient monitoring device
Headquarter/Factory	21,Sangjiseok-gil, Paju-si, Gyeonggi-do, Korea 10911
Branch Office	12,Moraena-ro 7-gil, Mapo-gu, Seoul, Korea 03949

Vision

- ✦ We contribute to improving the quality of human life based on technologies and services for healthy respiration
- ✦ We contribute to national and social development by creating and retaining jobs through continuous challenges.
- ✦ We realize our management philosophy of “Value Creation,” “Value-focused Management,” and “Value Sharing.”

In order to make company's vision a reality, MEKICS is providing medical devices that meet the treatment environment and improve the treatment effect in intensive care, based on research and development and continuous communication with the medical field. And we are committed by providing products and services suitable for the respiratory treatment environment extended to the home, the 'Maintenance of diseases state, Treatment of diseases & Improving the quality of life of the patients technology for respiratory care'.



Value Creation

We create new values in human life through endless challenges. Providing high-quality services based on improving the treatment of breathing, the most important life-sustaining activity of humans.



Value-focused Management

We seek to achieve the purpose of value creation, not just profit. And it is defined as the best performance of management.



Value Sharing

Through the sharing of challenges and opportunities, the sharing of efforts, and the sharing of performances, it should be the top principle of management innovation. We believe that value sharing is the driving force behind the creation of new values.

History

MEKICS will lead the changes in respiratory care through continuous innovation

Despite a short history, We're convinced that we have attained significant performances in the medical equipment market for serious patients. Starting with leading the technology for patient monitors in Korea, MEKICS has become the first Korean company to develop ventilators and CPAP (Continuous Positive Airway Pressure) for home. We also succeeded in developing software-type high-frequency ventilation technology and commercializing a world-class combined ventilator. As a result, MEKICS has grown to be the only company that can produce ventilators and respiration care devices in Asia.



2020~ Leapfrog

Progress toward a new future

2020 Declared the Vision 2025

2015~2019 Prepared the globalization

Focused on improving product performance and developing world-class products with the listing on the KOSDAQ as a momentum

- 2015 Launched MTV1000, a mobile ventilator model
Completed the head office building in Paju, Gyeonggi-do
Listed on the KOSDAQ
- 2016 Established MEK Healthcare, a subsidiary
Established Yantai Sejong Medical Instruments Co., Ltd., a local subsidiary in China
- 2018 Acquired the WithMed
Launched a total respiration care service "My-SUMM"

2009~2014 Rising to a new challenge

First development of a ventilator in Korea and a new-concept respiration care system

- 2009 Launched MP800C, a patient monitor
- 2010 Launched MP570T, a desktop patient monitor
- 2011 Launched MP1300 and MP1000NTPlus, patient monitors
- 2012 Developed and launched 'HFNC+NIV and HFT500'
- 2013 Certified for a world-class product (a universal ventilator) by the Minister of Commerce, industry and Energy
- 2014 Launched MV2000, a ventilator for serious patients
- 2014 Developed and launched a CPAP "M3" for the first time in Korea

1998~2008 Laying a foundation

Foundation as a medical device manufacture by focusing on developing and distributing pulse oximeters and patient monitors

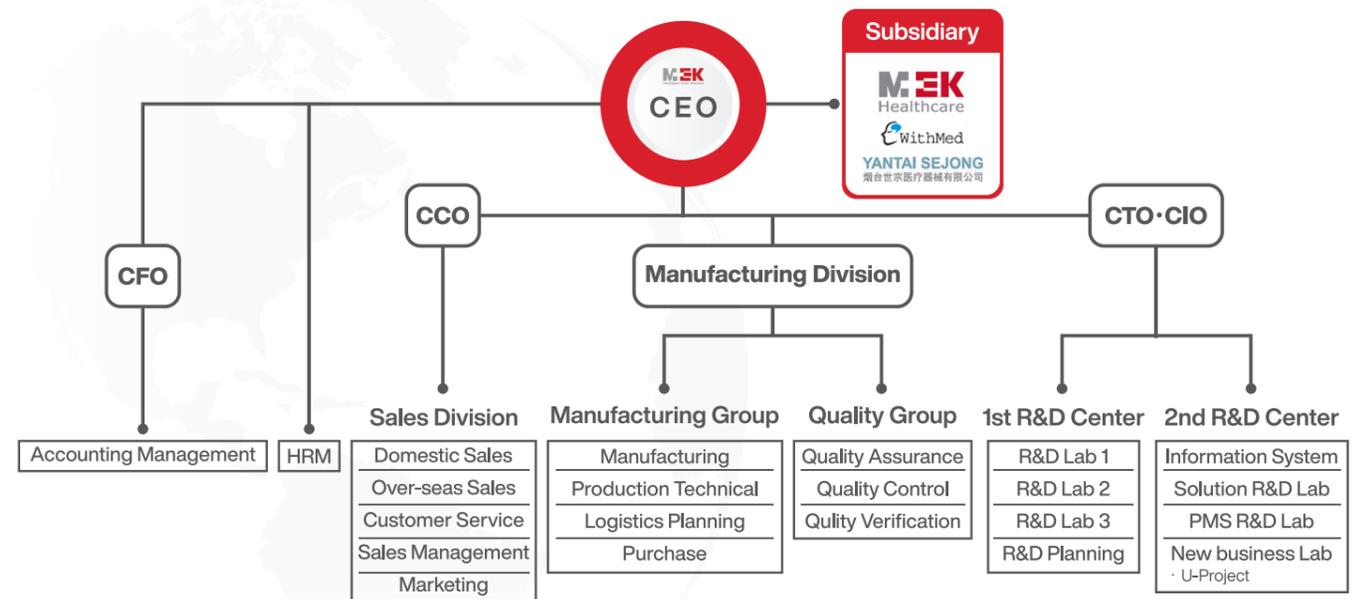
- 1998 Established
- 2000 Developed and launched MP110, the world's first portable pulse oximeter
- 2000 Obtained the ISO/CE
- 2001 Built the Chuncheon Plant
- 2003 Launched MP700, a patient monitor
- 2004 Launched MP800, a patient monitor, and MP111, a portable pulse oximeter
- 2006 Launched MH200, a phototherapy device
- 2007 Won the Minister Prize of SMEs and Startups at the Korea Precision Industry Technology Competition
- 2008 Developed and launched MV2500, a ventilator for serious patients



TECHNOLOGY DRIVEN COMPANY IN RESPIRATORY CARE

MEKICS will lead the changes in respiratory care through continuous innovation.

Organization Chart and Affiliates



MEK Healthcare is engaging in marketing activities for the distribution of CPAP solutions that care sleep apnea syndrome and snoring and the expansion of domestic healthy sleep market.

- Address 12,Moraena-ro 7-gil, Mapo-gu, Seoul, Korea 03949
- Founded 2016.02
- Contact 1644-1537
Sales@mekhealthcare.com



WithMed is Korea's largest CPAP service provider that helps sleep apnea syndrome patients easily use the CPAP device and receive better treatment at hospitals.

- Address 12,Moraena-ro 7-gil, Mapo-gu, Seoul, Korea 03949
- Founded 2005.07
- Contact 1644-7713
admin@withmed.net



YANTAI SEJONG was established to supply better technologies and products at low prices to Chinese consumers. It is promoting the registration of ventilators and respiratory care equipment.

- Address Room# 305, 10 Building, No.39 Keji Avenue, Yantai High-Tech Zone, Yantai, China 264007
- Founded 2016.02
- Contact +86-535-380-0264
garyko@mek-ics.com

Main Technology and Product Line

Technology value chain from vital signs technologies to respiratory care technology

Technology innovation is the driving force behind the growth of MEKICS. We have first commercialized ventilators and CPAP as well as patient monitors in Korea and succeeded in developing a High-flow respiratory ventilator. The company had focused on developing respiratory care equipment for serious and acute patients in hospitals, while recently completing products and services that cover chronic respiratory care market.

These innovative activities allowed us to pave the way for expanding home care technologies.

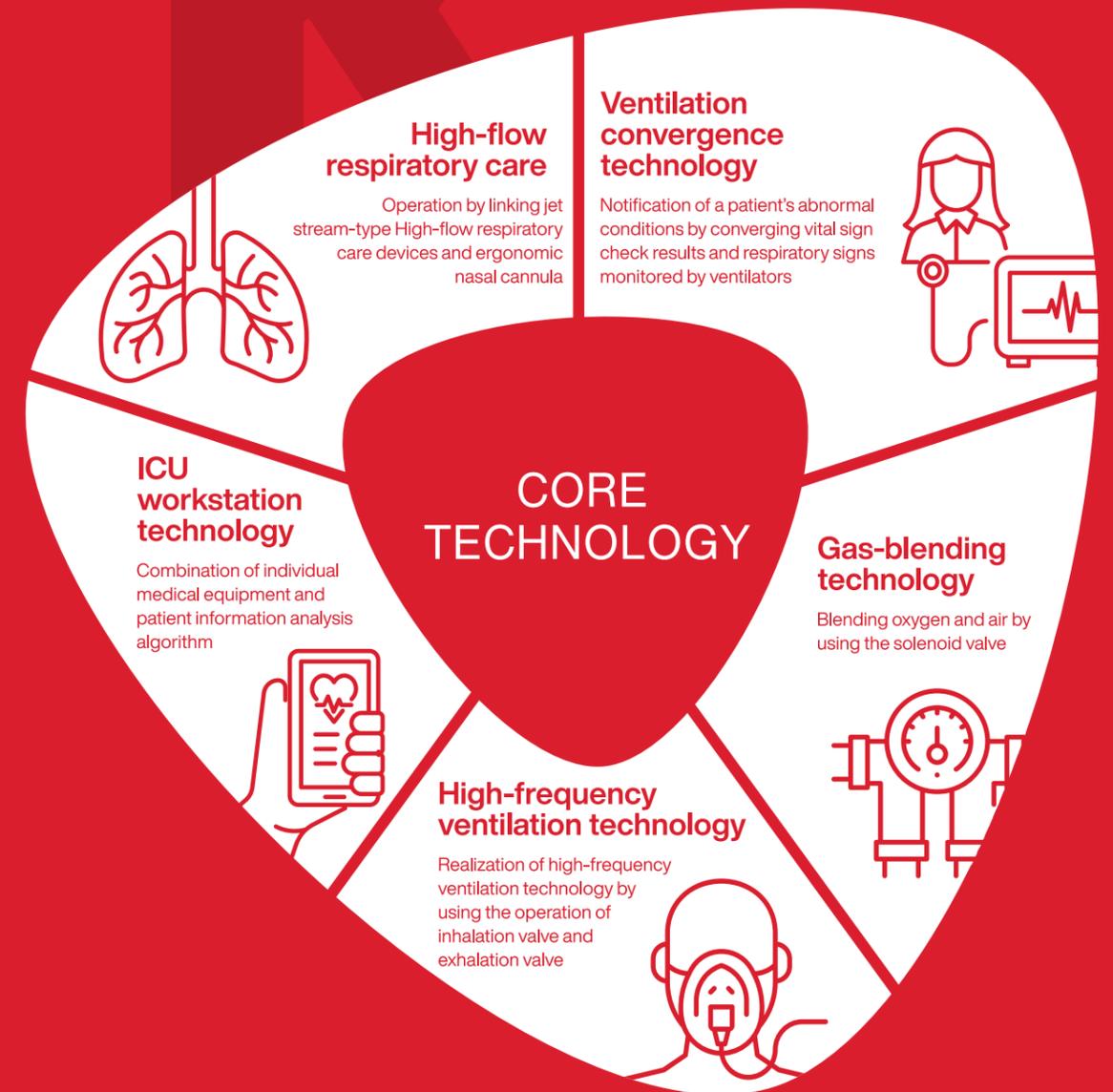
Based on combined knowledge and advanced technologies, we are enhancing our unique value chain that aims to build a new technology platform and platform-based business models and strategies.

+ Internalization of the 5 core technologies in the field of respiratory therapy

Based on Biotechnology, Robotics, Information and communication technology, and clinical knowledge, MEKICS possesses the core technologies of Korea's only high-frequency ventilation technology, Gas-blending technology, High-flow respiratory care, Ventilation convergence technology, ICU workstation.

+ Build product lines in all areas of the respiratory care market

MEKICS responds to the changing market environment by establishing a portfolio of products that can cover the entire range of respiratory treatments, including hospital and portable ventilators, home respirators.



Ventilator

Innovative technology, Solving your clinical challenges

MV2000

KEY FEATURE

- High-performance intensive care ventilator
- Leak Compensation with Trigger-Synchronize function eliminates unnecessary discomfort of patients and maximizes treatment efficiency
- Software-based product control, the mode required for treatment can be easily upgraded without replacing the product
- Provides high-frequency ventilation (High Frequency) mode, enabling care for patients and children with significantly reduced lung function
- In conjunction with the Central Monitoring System, the patient's condition can be monitored remotely
- Convenient product maintenance through Smart Viewer
- Equipped with Closed Suction support function, providing convenience for medical staff and reducing the possibility of additional patient infection during Suction (EVO 5 only)

▼ EVO 5_15 inch touch screen



▼ EVO 2_12.1 inch touch screen



MTV1000

KEY FEATURE

- High-performance critical care portable ventilator
- Leak Compensation with Trigger-Synchronize function eliminates unnecessary discomfort of patients and maximizes treatment efficiency
- 7inch touch screen and intuitive and simple UI configuration
- With built-in turbine, it is possible to supply to the patient through the equipment self-generated air without having to go through the hospital's air supply facility
- FiO2 21% oxygen supply support through oxygen blender
- Applicable from invasive ventilation to non-invasive ventilation
- Quick breathing support in an emergency (Quick Start)
- Convenient product maintenance through Smart Viewer



High Flow Therapy

Uniquely designed to make medical staff's comfortable



HFT500 HFNC

KEY FEATURE

- Product with all functions required for High-flow respiratory treatment
- Patient care is possible with simple application change according to the patient's condition
- Product that can perform High-flow respiratory treatment, humidification / heating, FiO2 setting, respiratory rate, pulse rate & SpO2 measurement simultaneously
- Through the electric oxygen blending technology, it is possible to supply stable and constant oxygen as much as the set value
- Patient's respiratory rate and SpO2 and S / F Ratio monitoring enable quick response to changes in the patient's condition
- In conjunction with the Central Monitoring System, the patient's condition can be monitored remotely

HFT700 NIV+HFNC

KEY FEATURE

- Product with all functions required for non-invasive breathing treatment
- Supports 3 in 1 Device HF, CPAP and Bi-level modes.
- Patient care available for all respiratory treatments except for Invasive Ventilation
- Patient care is possible with simple application change and mode change according to the patient's condition
- Intuitive and high user-friendly UI configuration
- Product in the world capable of non-invasive breathing treatment, humidification / heating, FiO2 setting, respiratory rate, pulse rate & SpO2 measurement simultaneously
- Through the electric oxygen blending technology, it is possible to supply stable and constant oxygen as much as the set value
- By monitoring the patient's respiratory rate and SpO2 and S / F Ratio, it is possible to respond quickly to changes in the patient's condition
- Simple patient breathing circuit and application configuration
- In conjunction with the Central Monitoring System, the patient's condition can be monitored remotely



Patient Monitor



Better outcomes from precious monitoring to treatment



MP1300

KEY FEATURE

- 12.1 inch touch screen format, easy to use and change only the necessary functions
- Providing essential patient monitoring values in a variety of environments, including ICU, operating rooms, recovery rooms, wards and outpatient departments
- Semi-modular type facilitates monitor transfer between patients
- OxyCRG Viewer displays indicators of normal breathing efficiency and brain breath control
- Accurate heart rate can be checked through ICO
- Module can be separated, so only the module can be installed next to the bed



Pulse Oximeter



More Convenient, Most Fastest Healing



MP110P

KEY FEATURE

- A stable oximeter in use from a private hospital to a university hospital
- Easy beep sound control with up and down buttons
- Pole fixing bracket included, height adjustable according to user
- Handy type for easy movement and convenient use
- Possible to measure SpO2 & PI index more accurately by applying ILIC technology
- Fast Stand-by mode active with 5 second boot time
- Handy type with a weight of 400g for easy movement and convenient use



MP1000NT Plus

KEY FEATURE

- 10.4 inch TFT LCD provides clear display
- Providing essential patient monitoring values in a variety of environments, including ICU, operating rooms, recovery rooms, wards and outpatient departments
- Continuous monitoring is possible even during patient transportation
- Interworking with the Central Monitoring System through wired / wireless Wi-Fi is possible
- Carbon dioxide concentration can be measured through the EtCO2 option

MP800

KEY FEATURE

- 7inch TFT touch screen, easy setting
- Easy to use with intuitive UI
- Compact design and light weight of 2kg
- Interworking with the Central Monitoring System through wireless Wi-Fi is possible
- Semi-module type for quick and easy maintenance



MP570T

KEY FEATURE

- Pulse oximeter that can be used from infant to adult
- As a compact tabletop patient monitoring device, SpO2 and FiO2 can be used
- Easy to use interface by using encoder
- Accurate analysis of patient status through 120hr Trend
- When using battery mode, up to 4hr can be used
- Possible to measure SpO2 & PI index more accurately by applying ILIC technology
- Possible to continuously check the patient's oxygen treatment through FiO2 monitoring





TECHNOLOGY DRIVEN COMPANY IN RESPIRATORY CARE



PRODUCT VALUE CHAIN

Ventilator



High Flow Therapy



Patient Monitor



Pulse Oximeter



A business area connected by a value chain from hospital to home



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