

NEOX® SMART CUSHION

Movement-Driven Care



The Challenge

Prolonged Sitting is More than Just Sitting

Wheelchair users often remain seated for **hours** every day.



Many cannot perform regular pressure relief due to



Limited mobility



Fatigue



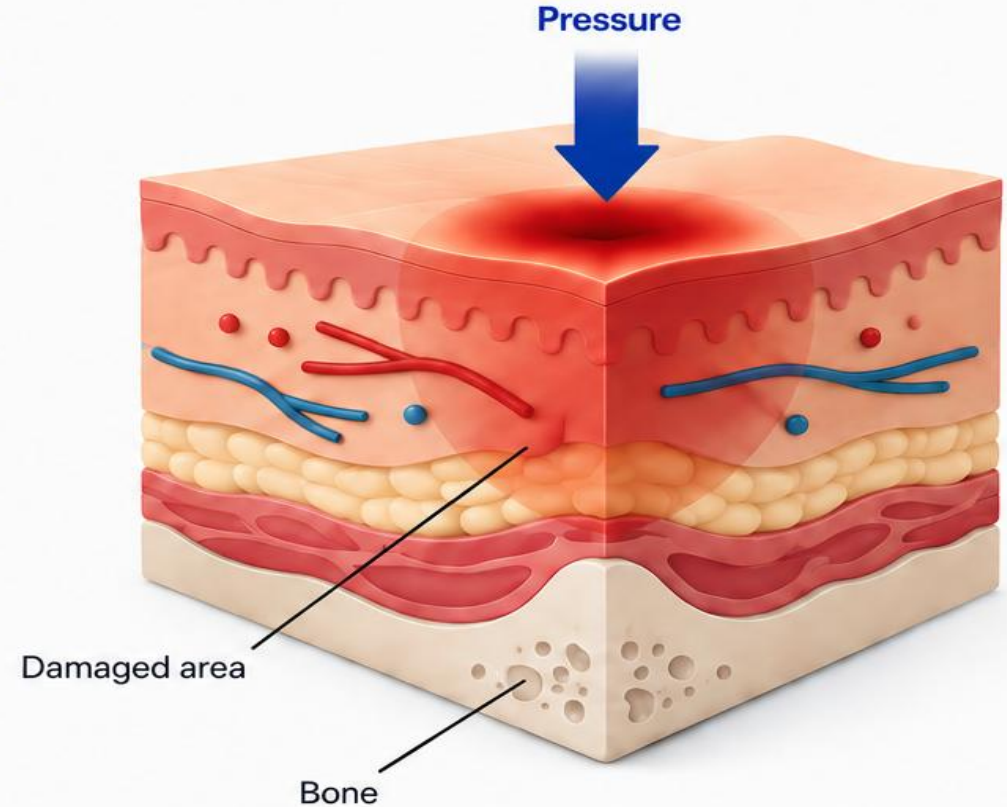
Caregiver dependency



Long sitting duration



Sitting is not static.
Seating support should
not be static either.



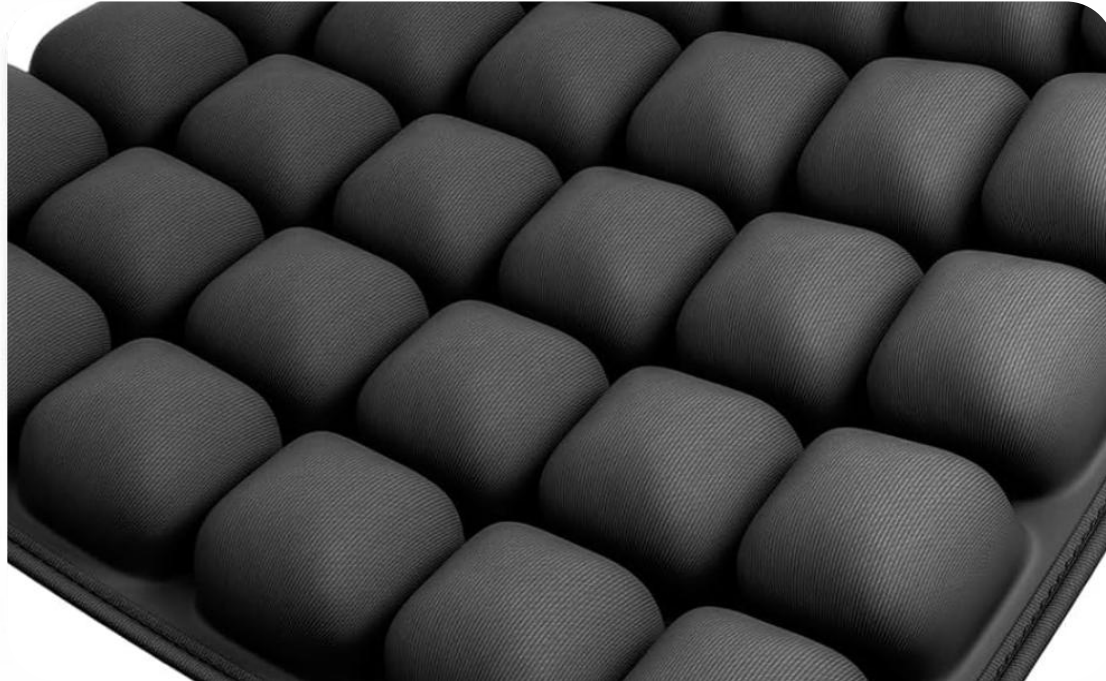
Prolonged, unrelieved pressure can lead to tissue damage and pressure injuries.



Dynamic pressure redistribution is the key to protection.

Traditional Cushions

Static pressure distribution. Unchanged over time.



Pressure Distribution

Pressure remains in the **same tissue over time**, increasing the risk of pressure injuries.

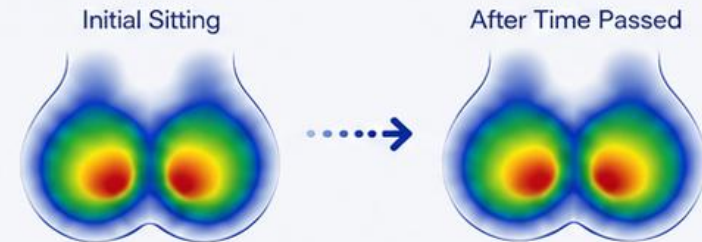


Examples

- Air Cell
- Gel
- Foam



Traditional cushions distribute pressure but the pressure pattern **remains largely unchanged** once seated.

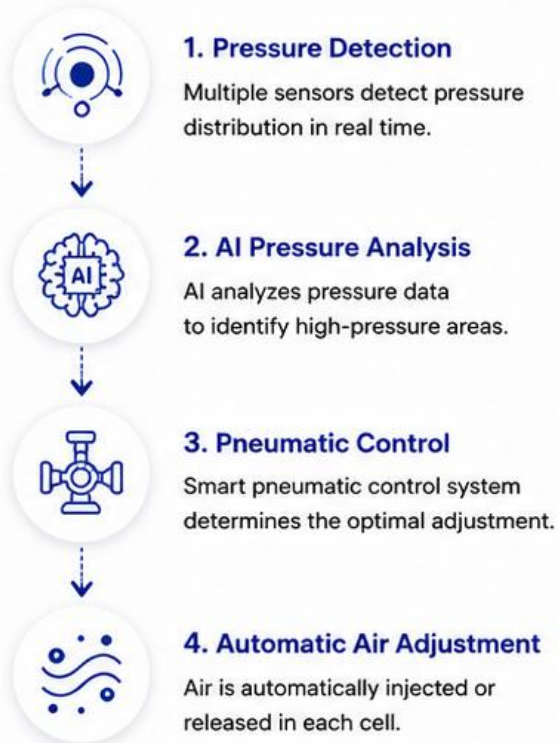


Our Solution

It's Moving NEOX[®] System

Dynamic Pressure Redistribution Technology

HOW IT WORKS



NEOX[®] continuously detects, analyzes, and redistributes pressure to reduce prolonged pressure concentration.



The result:

Reduced pressure concentration, enhanced comfort, and skin protection during long-term sitting.

POWERED BY INDEPENDENT AIR CELL TECHNOLOGY



KEY TECHNOLOGIES



Pneumatic Control

Precise air flow control for optimal pressure balance.



AI Pressure Analysis

AI-driven analysis for accurate pressure monitoring.



Automatic Air Adjustment

Automatically adjusts air in each cell for continuous comfort.



Unlike static cushions,
NEOX[®] continuously detects, analyzes, and redistributes pressure during sitting.

Key Technology

NEOX[®] Smart Cushion

Intelligent technology for pressure relief, anytime and anywhere.

Breathable Cover

Removable & washable cover for hygiene and comfort.

Independent Air Cells

30 grid-shaped air cells inflate and adjust independently.

Smart Control System

Real-time sensing and AI-driven control for optimal pressure redistribution.

Durable Base

Robust and lightweight design for everyday reliability.



Attachable Battery

Easy to attach and detach for convenient charging.



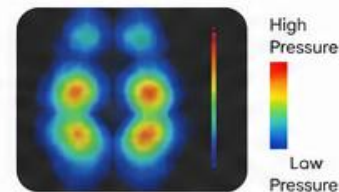
Variable 3 Sizes

Available in 3 different sizes to fit various users and needs.



AI Pressure Analysis

AI analyzes pressure in real time and continuously optimizes air distribution.



Up to 15 Hours of Operation

Long-lasting battery performance for all-day use.

15
HOURS

Why NEOX®?

NEOX® Smart Cushion is Different

Advanced technology. Dynamic care. Better outcomes.

Category		Traditional Cushion (Air / Gel / Foam)	NEOX® Smart Cushion
	Support Type	Static Support	Dynamic Support ✓
	Pressure Management	Pressure Distribution	Dynamic Pressure Redistribution ✓
	Pressure Relief	User-dependent	Automatic Pressure Relief ✓
	Movement	None	Continuous Micro-Movement ✓
	Air Pressure Control	Manual / Fixed	Automatic Adjustment ✓
	Power Source	Not Required	Removable Battery ✓
	Technology	Air / Gel / Foam	AI-based Pneumatic Control ✓
	User Experience	Passive Support	Adaptive Support ✓
	Long-term Sitting Support	Limited Relief	Continuous Support ✓

Benefits & Applications

Pressure relief and care efficiency across clinical and home-care settings.

BENEFITS



Patients

Pressure Relief

Helps reduce pressure and supports skin health for greater comfort.



Caregivers

Reduced Workload

Reduces the physical burden and makes caregiving more efficient.



Home Care Users

Daily Comfort

Enjoy comfortable seating throughout the day, anytime and anywhere.



Hospitals

Improved Care Efficiency

Supports better outcomes and optimizes care management.

APPLICATIONS



Hospitals

Ideal for patient care in hospital environments.



Rehabilitation Centers

Supports recovery and enhances rehabilitation outcomes.



Long-term Care Facilities

Provides reliable pressure care for continuous resident comfort.



Home Care

Brings advanced pressure care to the comfort of home.



Wheelchairs

Designed for stable seating and pressure relief on the go.



PRODUCT SPECIFICATIONS

NEOX® Smart Cushion

NEOX® Smart Cushion is an innovative **active air cushion** designed to prevent pressure injuries and provide long-term comfort and stability for users.



Active Air Technology

Automatically redistributes pressure



Pressure Injury Prevention

Helps reduce the risk of pressure injuries



Quiet Operation

Noise level 60dB under



Lightweight Design

Easy to install and transport



Safe & Certified

Medical Device 2 tier (GMP)

Product Specifications

Title	Medical shift floating mattress	Classification number(grade)	A02050.01 (2)
Model	NA-ORC-3840 / NA-ORCX-3840	Maximum allowable pressure in air room	30 kPa (±10 kPa)
Size	1.5kg	Basic mode Air injection time	Air injection amount and injection time for each air room C/R/L area 1): Air volume: 60% (4 ± 3) of the normal air room volume. Injection seconds. Seconds 2): Large amount of air: 100% (5 ± 3) of the air room volume
Weight	400(W) x 450(D) x 90(H)	Automatic mode Shift cycle and operating time	Automatic mode shift cycle and operating time: automatically repeated Cycle (15 minutes) and standby (20 minutes) are repeated 4 times, followed by a final cycle (15 minutes), total 155 minutes.
Certification	Medical Device 2 tier(GMP)	Noise Test	60db under
Electric Power	100~240V, 50/60Hz	Loading	100kg below
Charging capacity	2200mAh	Maximum operating time	Automatic mode : within 155 ± 20% minutes

* Specifications may vary depending on product improvements.

* Please read the user manual carefully before use.

Validated in Japan

Proven through commercial export, official registration, and real-world validation.



NEOX® Smart Cushion is clinically validated and trusted by users in Japan.



Commercial Success
5 Billion KRW
Export Contract

📍 Exclusive Distribution in Japan



Successful export contract worth **5 Billion KRW**.



Official Registration
TAIS Registered
Technical Aids
Information System

TAIS

Technical Aids Information System
福祉用具情報システム

TAISコード : 02397-000001

NEOX® スマートクッションは日本の福祉用具情報システム (TAIS) に正式登録されています。



Officially registered in Japan under the TAIS system.



Clinical & User Validation

- ✓ Hospital Evaluation
- ✓ User Validation
- ✓ Real-world Feedback



Proven through clinical evaluation and real-world user feedback.

GLOBAL EXPANSION

Expanding Our Presence. Delivering Global Impact.

NEOX® Smart Cushion is expanding worldwide through strategic partnerships, clinical adoption, and trusted distribution.



GLOBAL REACH

Expanding to key markets across Asia, Middle East and Oceania.



STRATEGIC PARTNERSHIPS

Collaborating with hospitals, distributors, and institutions around the world.



CLINICAL ADOPTION

Validated by healthcare professionals and adopted in clinical environments.



CONTINUOUS GROWTH

Committed to improving pressure care outcomes worldwide.



OUR VISION

To become a global leader in pressure care solutions and improve **quality of life** for patients worldwide.



GERMANY

Clinical collaboration and market exploration



SINGAPORE

Pilot validation with healthcare institutions



SAUDI ARABIA

Royal Clinic purchase completed; user/clinical validation ongoing



UAE

MOU signed with local distributor; sales discussion ongoing



VIETNAM

Partnership discussions and market entry



AUSTRALIA

Distribution collaboration and product introduction

Advanced air technology and intelligent control for smarter pressure care and better patient outcomes.

It's Moving

NEOX[®] System

Adaptive Pressure Management
for **Better Pressure Relief**



CONTACT US



joey@neoable.co.kr



www.neoable.co.kr



+82 33 900 6101

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