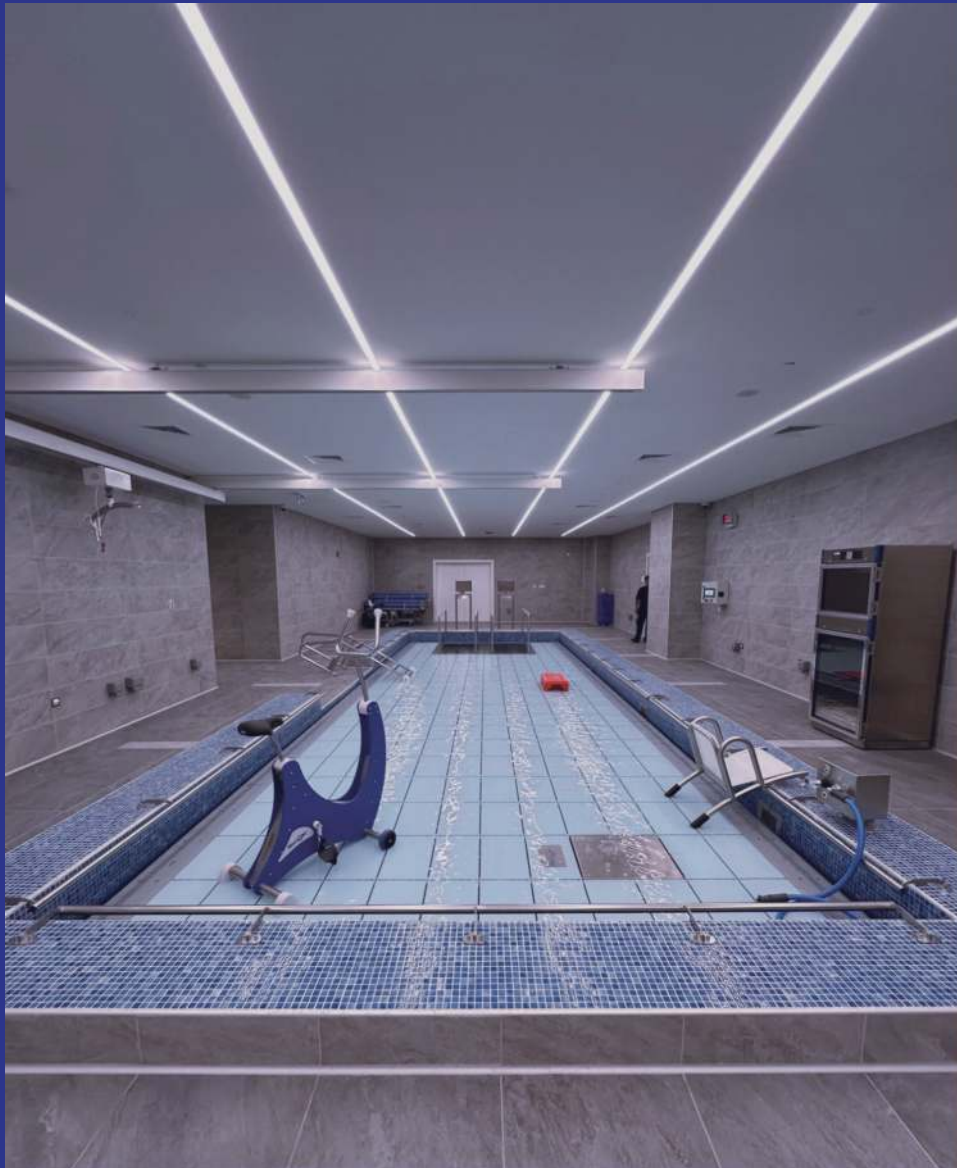




EWAC MEDICAL

WE GET YOU MOVING



# Movable Swimming Pool Floor

The Perfect Depth for Every Step



# Welcome

“We get you moving,” isn’t just a slogan—it’s a lifeline to those like Emily, whose world shrunk dramatically after an injury left her doubting if she’d ever dance at her daughter’s wedding. EWAC’s aquatic therapy equipment, installed at the local rehabilitation center, where water and technology blend in harmony. For Emily, the pool isn’t just a facility; it’s where miracles begin. Under the gentle guidance of her therapist, she finds herself surrounded by water, feeling lighter, freer, and more capable with each session. The fear and doubt that once clouded her mind start to dissipate, replaced by hope and determination.

Aligned with our mission to enhance the global quality of life, our slogan signifies more than just physical movement. It represents our commitment to rejuvenating lives, empowering individuals, revitalizing businesses, and, on a grander scale, propelling nations forward. By getting people moving, we’re not only facilitating physical mobility but also driving progress and prosperity. We achieve this through our dedication to delivering the pinnacle of innovation and quality in our field, tailored to meet the specific needs of diverse cultures globally. This is how we fulfill our promise: “We get you moving,” embodies our commitment to movement, improvement, and advancement for individuals, businesses, and nations alike.

Eric Legdeur - CEO

A handwritten signature in black ink that reads "ERIC" in a cursive, slightly slanted font. The signature is underlined with a single horizontal stroke.

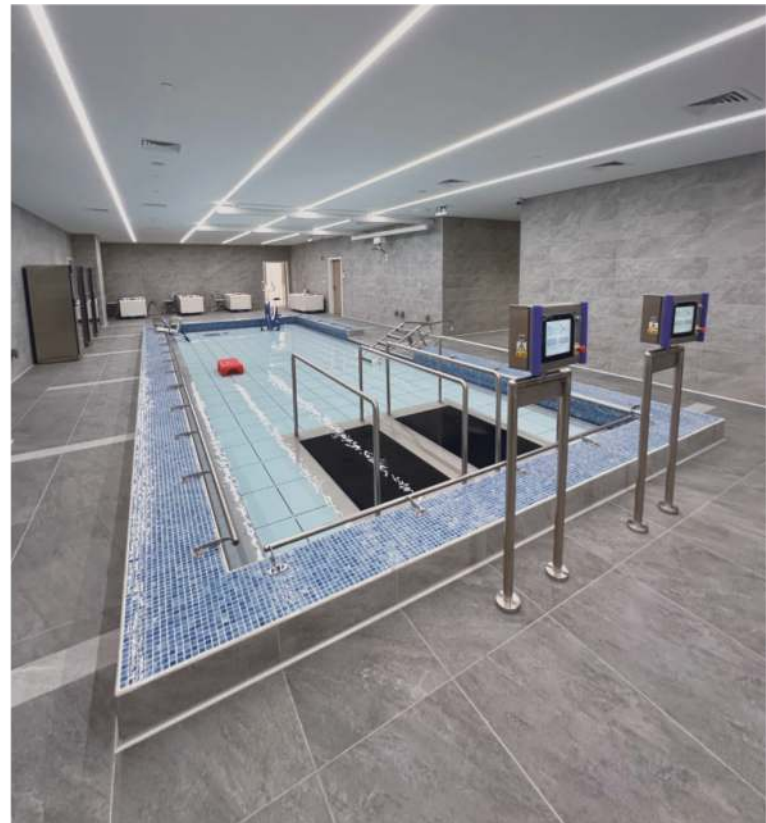
EWACMEDICAL.COM

# Introduction

## Movable Swimming Pool Floor

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The EWAC Medical Movable Swimming Pool Floor transforms any pool into a precise, adaptable rehabilitation environment. Depth can be set to each patient, therapy, or program, improving safety, accessibility, and treatment outcomes. Built from marine-grade stainless steel with a non-slip, water-permeable deck, it combines durability, hygiene, and safety—ensuring reliable use for decades of intensive aquatic therapy. Every session begins at the perfect depth, adapted to need.



## Adaptive Depth, Unlimited Possibilities

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From first mobilization to advanced aquatic exercise, the Movable Floor sets the ideal depth for every stage of recovery. It improves safety, confidence, and therapy effectiveness within a single therapeutic environment.

*Narasaki-Jara, M., Wagatsuma, M., Holt, J. L., Acuña, S. M., Vrongistinos, K., & Jung, T. (2019). Aquatic treadmill walking at three depths of water in people with traumatic brain injury. *Physiotherapy Research International*, 24(4), e1817*

*Jung, T., Kim, Y., Lim, H., & Vrongistinos, K. (2018). The influence of water depth on kinematic and spatiotemporal gait parameters during aquatic treadmill walking. *Sports Biomechanics*, 17(3), 268-280.*

*So, B. C. L., Kwok, M. M. Y., Fung, V. C. Y., Kwok, A. H. Y., Lau, C. W. C., Tse, A. L. Y., Wong, M. S. Y., & Mercer, J. A. (2022). A study comparing gait and lower limb muscle activity during aquatic treadmill running with different water depths and land treadmill running. *Journal of Human Kinetics*, 82(1), 39-50.*

# Believe – Movement Restores Confidence

## Patient Experience

At EWAC Medical, we believe recovery succeeds when patients feel safe, supported, and in control of their environment. Adjustable depth turns water into a therapeutically that adapts precisely to each stage of rehabilitation. In shallow settings, patients can confidently attempt their first steps, relearn balance, or practice gait in a safe and partially weight-bearing condition. Mid-depths provide buoyancy combined with resistance, ideal for building strength, endurance, and coordination without fear of falling. Deeper water creates near-weightless immersion that relieves joint stress, reduces pain, and enables stretching or cardiovascular training even in fragile conditions. Deck-level access ensures that wheelchair and stretcher users enter with dignity, while non-slip tiles and optional handrails provide security in every movement. For patients, this means therapy becomes more than a routine—it becomes a positive, motivating pathway back to independence, where confidence grows with every session and each milestone feels within reach.



## Therapist Perspective

For therapists, the Movable Floor is not just equipment but a clinical precision tool that adapts to protocols, diagnoses, and patient needs in seconds. Adjustable depth allows buoyancy, resistance, and immersion to be fine-tuned for each session, eliminating the limitations of fixed-depth pools. Deck-level entry reduces manual handling risks and promotes safer, more ergonomic working conditions for staff. This is particularly valuable during passive treatments such as mobilization, where the correct working height is essential to protect the therapist while ensuring patient comfort. Poolside supervision is optimized by the open layout, reducing strain and increasing efficiency. Optional observation windows and underwater cameras allow real-time assessment of gait, posture, and coordination, while digital recordings support evidence-based practice and patient motivation. With one adaptable pool serving diverse groups throughout the day—from pediatric patients to elderly users or athletes in rehabilitation—therapists spend less time on logistics and more time on clinical outcomes. The result is a therapy environment that enhances safety, precision, and efficiency, empowering professionals to deliver consistent, measurable results, session after session.



# A System that Fits You – and Evolves with You

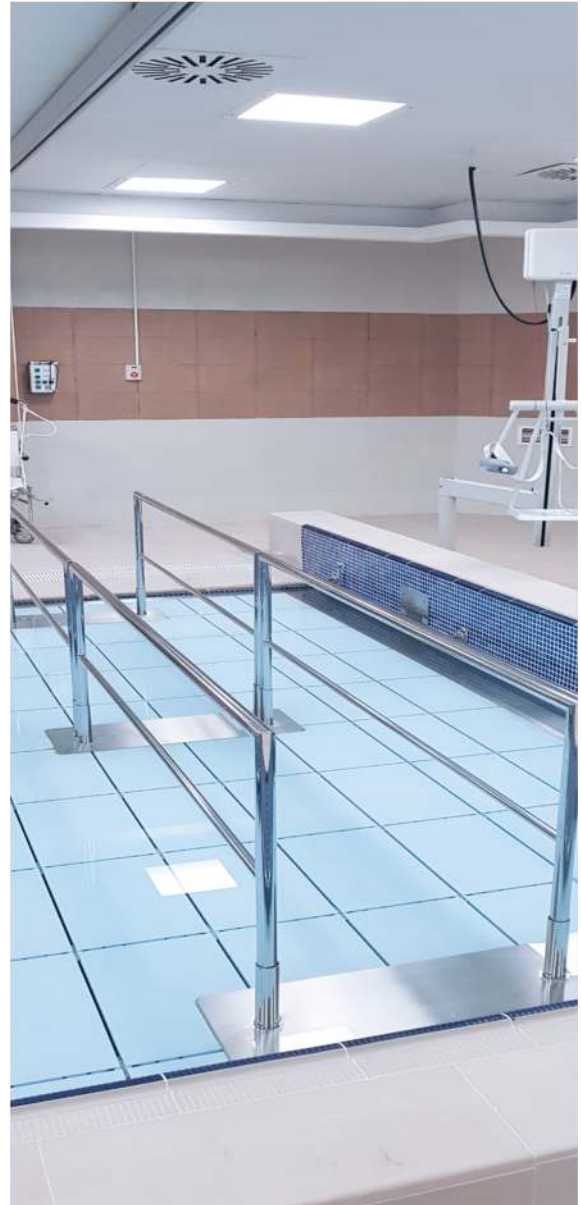
Engineered for Adaptability and Ease

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## Design & Construction

Every EWAC Medical Movable Floor is engineered with longevity, hygiene, and performance in mind. Built from marine-grade stainless steel (AISI 316L), the structure provides long-term strength, stability, and resistance to corrosion, even under intensive clinical use. The open, water-permeable deck supports continuous circulation and hygiene, while the robust frame ensures decades of reliable performance with predictable, low-maintenance operation. The robust frame integrates a water-hydraulic cylinder, guidance wheels, and sacrificial anodes for additional protection of the high-grade stainless steel structure. Its removable, non-slip, water-permeable tile deck provides a stable and secure surface for users during all types of aquatic therapy, while maintaining continuous water circulation across the surface—critical for consistent disinfection and hygiene.

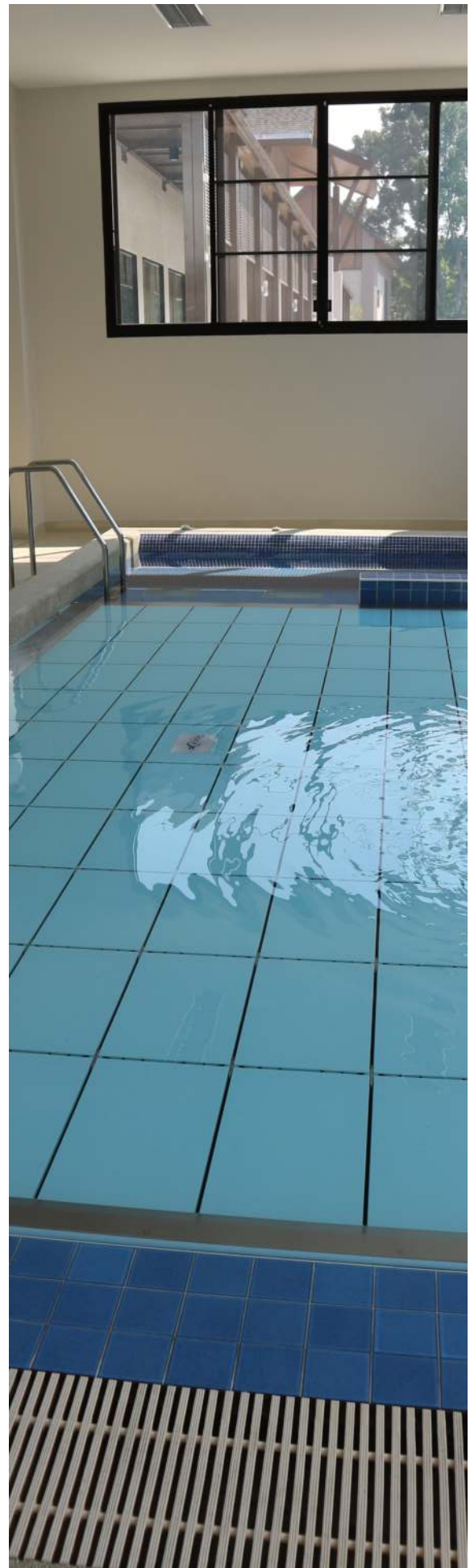
Designed to be service-friendly, every mechanical component is accessible from above the deck, eliminating the need for divers and minimizing downtime. Each unit is designed and validated in EWAC's engineering department, factory-assembled, and fully tested before shipment. Certified as a Class I medical device and manufactured under ISO 9001 and ISO 13485, the Movable Floor offers not only advanced functionality but also assured quality and long-term safety.



## Flexibility & Integration

The EWAC Medical Movable Floor is designed to integrate seamlessly into both new and existing facilities, ensuring adaptability for future needs. It can be installed in modular stainless-steel pools or retrofitted into traditional concrete basins with minimal disruption. Two construction types are available: the suspended model, particularly suited for smaller rehabilitation pools with limited depth, and the floating model, ideal for larger installations. Floors can cover the entire pool, a section, or be divided into multiple independently adjustable platforms, allowing facilities to run parallel programs—for example, pediatric therapy in one area while gait training continues in another.

Optional features such as removable handrails, safety curtains, underwater treadmills, observation windows, and camera systems extend clinical functionality. Because all essential components are factory-engineered, preassembled, and tested before shipment, installation on-site is efficient and predictable. Servicing is performed entirely from the pool surface, avoiding the need for divers and minimizing downtime during the product's lifetime. This flexibility makes the Movable Floor a future-proof solution that grows with clinical programs and institutional strategies.



# How It Works

Safe, Adaptive, Effective

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## Operation & Safety

At the press of a button, the EWAC Medical Movable Floor adjusts with millimeter precision, transforming the pool into a tailored rehabilitation environment. The water-hydraulic system operates with a pressure unit in the technical area, ensuring that no oil or electricity enters the pool, thereby eliminating contamination risks. Operation is limited to authorized staff via a key-secured control unit or a password-protected touchscreen, preventing unauthorized adjustments. An integrated pressure sensor provides accurate depth feedback, displayed directly on the control panel and, if desired, on a wall-mounted display.



Optional audible and visual signals alert users during movement, and a safety curtains prevent access beneath the platform for partial-coverage installations. The non-slip, water-permeable deck ensures secure footing during therapy sessions, while removable handrails add extra confidence for those with balance limitations.

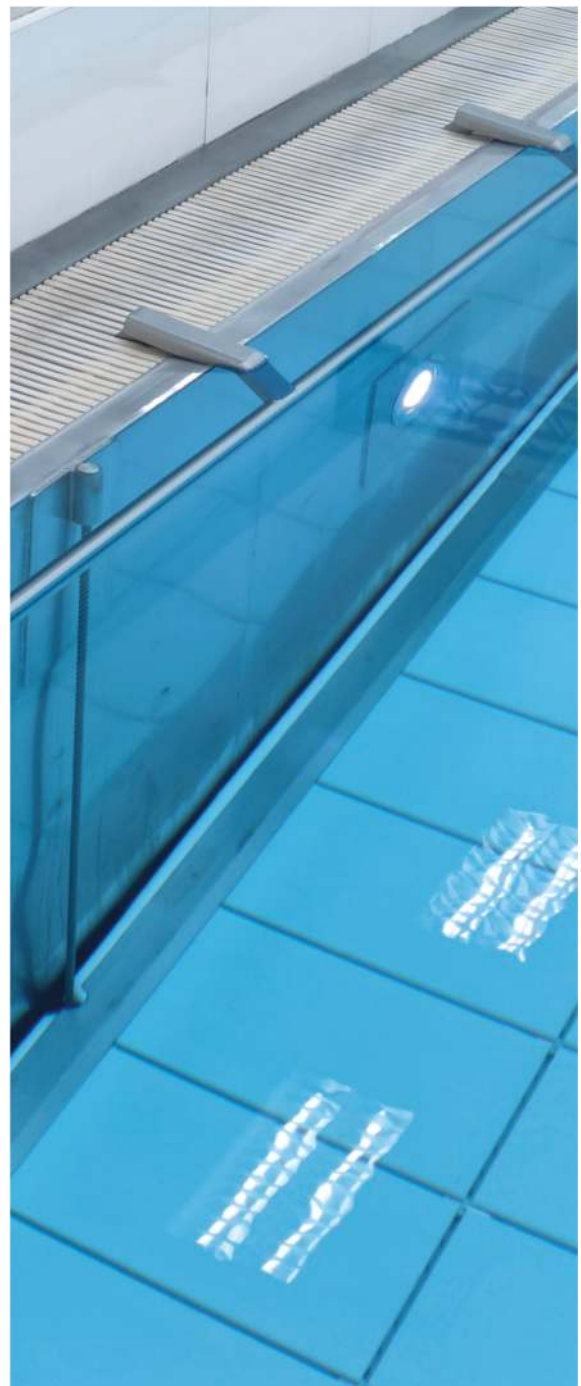
The maximum gap across the surface, including at pool edges, is engineered to remain minimal. A protective foil covers the perimeter, eliminating the risk of entrapment. Maintenance can be carried out entirely from above, ensuring predictable service intervals and minimal downtime. These features combine to create a system that is as safe and reliable as it is clinically effective.



## Clinical Application

Adjustable depth transforms a single pool into a fully versatile rehabilitation environment. At shallow settings, patients practice partial weight-bearing walking, balance training, and gait re-learning in a safe and controlled manner. Intermediate depths provide gentle resistance, supporting programs aimed at muscle strengthening, cardiovascular conditioning, and endurance-building with minimal joint strain. At maximum immersion, the buoyancy of water enables even fragile patients to attempt range-of-motion exercises, pain-relief protocols, or mobilization that would otherwise be impossible on land. This adaptability allows therapists to align therapy precisely to the stage of recovery, diagnosis, or functional goal, session after session.

The open, water-permeable deck design supports uninterrupted circulation across the surface, helping maintain hygiene and effective disinfection. Clinical applications range from neurological and orthopedic rehabilitation to pediatric and geriatric therapy, as well as sports medicine and performance training. With optional underwater treadmills, observation windows, and video systems, therapists can further enhance analysis and documentation, making the Movable Floor a central tool for evidence-based aquatic therapy.



# Why Choose the EWAC Medical Movable Floor?

## Emphasizing Versatility

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### Clinical & Functional Benefits

The EWAC Medical Movable Floor eliminates the limitations of fixed-depth or sloped pools by adapting instantly to each user group. This enables facilities to deliver more therapy in less space, maximizing capacity without expanding the building footprint. Deck-level entry ensures safe and dignified access for wheelchair and stretcher users, while non-slip tiles and optional handrails provide security for all participants.



Observation windows and underwater cameras support real-time analysis of posture, gait, and movement, giving therapists the ability to provide instant feedback and improve documentation. The integration of underwater treadmills and other exercise devices expands therapeutic possibilities further, supporting everything from basic mobility training to advanced performance programs.

With more than 30 years of continuous development and over 1,000 installations worldwide, the EWAC Medical has proven itself as the trusted choice of hospitals, rehabilitation centers, and sports medicine institutes. The EWAC Medical Movable Floor improves clinical quality, enhances patient motivation, and increases therapist efficiency—offering a foundation for measurable, sustainable progress in aquatic rehabilitation.



## Operational & Strategic Benefits

Beyond its clinical value, the EWAC Medical Movable Floor delivers clear operational and strategic advantages. Built from marine-grade stainless steel with a removable non-slip deck, it is engineered for long service life under intensive daily use. With proper maintenance, EWAC Medical Movable Floors have demonstrated reliable performance in facilities worldwide for more than three decades, underscoring their durability and long-term value. Maintenance is predictable and efficient, as all components can be accessed from above the pool—eliminating the need for divers and reducing downtime. Installation is minimally invasive, with transportable components that fit through standard doorways, making the system suitable for both new builds and retrofits in existing facilities.



Because one adjustable floor replaces the need for multiple fixed-depth pools, facilities achieve greater utilization within a smaller footprint, optimizing both space and staffing resources. Depth changes are performed within minutes, allowing rapid turnover between patient groups and maximizing scheduling efficiency. Optional features—such as safety curtains, handrails, underwater treadmills, and observation systems—add long-term functional value and ensure the floor continues to meet evolving clinical demands.

As a Class I medical device manufactured under ISO 13485, the EWAC Medical Movable Floor is a proven, future-proof investment that strengthens institutional reputation, supports therapist efficiency, and ensures facilities remain leaders in modern hydrotherapy.

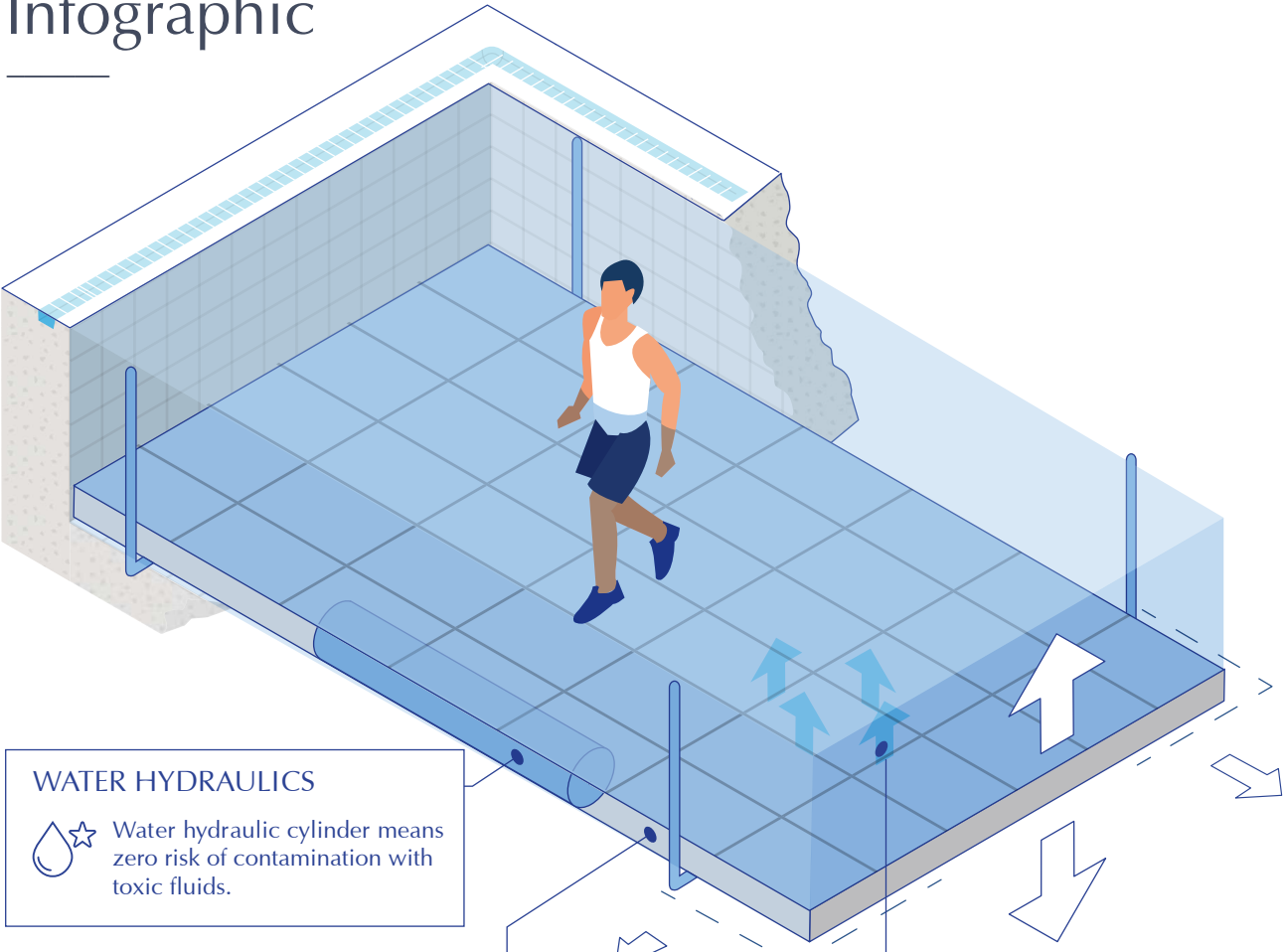


# Specifications

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Types	Suspended ( $\approx 400$ mm construction height) for smaller rehabilitation pools, or floating ( $\approx 600$ mm) for larger installations
Pool Compatibility	Suitable for modular stainless-steel pools and traditional concrete pools
Coverage Options	Entire pool, partial section, or multiple independently adjustable platforms
Frame Material	AISI 316L marine-grade stainless steel, corrosion resistant and durable
Deck Surface	Removable non-slip, water-permeable tiles ensuring safe access and uninterrupted circulation
Guidance & Protection	Stainless steel guidance wheels and sacrificial anodes for longevity of high-quality material
Drive System	Integrated water-hydraulic cylinder with external pressure unit, using only drinking water (no oil, no electricity in the pool)
Adjustment Speed	Approx. 0.5 m per minute, full range in 2–3 minutes
Depth Range	Project-specific, up to 1,700 mm standard
Depth Indication	Integrated pressure sensor, readout on control panel; optional wall display
Control Options	Key-secured unit or password-protected touchscreen with programmable depth presets
Safety Features	Optional audible/visual alarms during movement, safety curtain for partial coverage, small engineered surface gaps with protective foil, removable handrails
Load Capacity	Designed for intensive use, supporting up to $60 \text{ kg/m}^2$ average (excluding buoyancy)
Operation & Access	All servicing from above, no divers required; minimal downtime during maintenance
Installation	Modular components pass through standard doorways for retrofit in confined spaces
Commissioning	Factory-assembled and tested in the Netherlands; typical on-site installation and commissioning in a week
Hygiene	Open, water-permeable deck supports full water circulation for effective disinfection
Certification	Class I medical device (MDR), manufactured under ISO 9001 & ISO 13485

# Infographic



**WATER HYDRAULICS**  
 Water hydraulic cylinder means zero risk of contamination with toxic fluids.

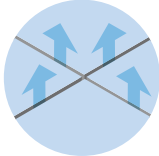
**MINIMUM CONSTRUCTION THICKNESS**  
 A total construction thickness of 30 cm, this is the thinnest movable floor in the market.

## MAXIMUM ADAPTABILITY

- Movable pool floor
- Underwater treadmill
- Underwater bicycle
- Camera's
- Counter current
- Underwater massage
- Self adjusting steps
- Can be installed in new and existing pools

**WATER PERMEABLE SURFACE**  
 Pool water can move through the surface undisturbed, because of openings between the tiles. Therefore:

- Optimal water hygiene!!
- Undisturbed water circulation.
- The floor moves faster through the water.



## DYE TEST

- First movable floor to pass the dye test (EN15288-1:2019-annex A)

## SAFE

- Strong stainless steel frame
- Safe non-slip surface (Class C- EN13451-annex E)
- Water permeable over entire surface
- Safe water hydraulics

# Hydrotherapy

The Safest Way to Train Gait & Balance



Hydrotherapy, or aquatic therapy, is a highly effective and safe method for improving gait and balance, particularly for individuals recovering from injury, surgery, or neurological conditions. The natural buoyancy of water reduces the impact on joints and minimizes the risk of falls, making it an ideal environment for rehabilitation and mobility training. The resistance provided by water also helps strengthen muscles, improve coordination, and enhance overall stability. Whether used for physical therapy, athletic rehabilitation, or fall prevention in older adults, hydrotherapy offers a controlled, supportive setting where progress can be made safely and effectively.



EWAC Medical, The Netherlands, [medical@ewac.nl](mailto:medical@ewac.nl)  
ISO 9001, ISO 13485



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LEADER IN  
AQUATIC THERAPY  
EQUIPMENT



**EWAC MEDICAL**

WE GET YOU MOVING

