

## MEDICA 2019

Date ■ November 18-21, 2019 (Mon.-Thu.) Venue ■ Messe Düsseldorf

# Touch and Try Hot New Products!



Minato Medical Science is a leading manufacturer with the largest share in various areas of the physiotherapy device market in Japan. The Aquatizer QZ-240, the crowning achievement of all of our technologies, is a state-of-the-art massage bed that provides unprecedented comfort. A hands-on exhibition of the Aquatizer QZ-240 and Weltonic WTS-i series will be held at the Minato Medical Science booth in the MEDICA 5th hall (No. 5/L39). Please come to the Minato Medical Science booth and experience the performance.

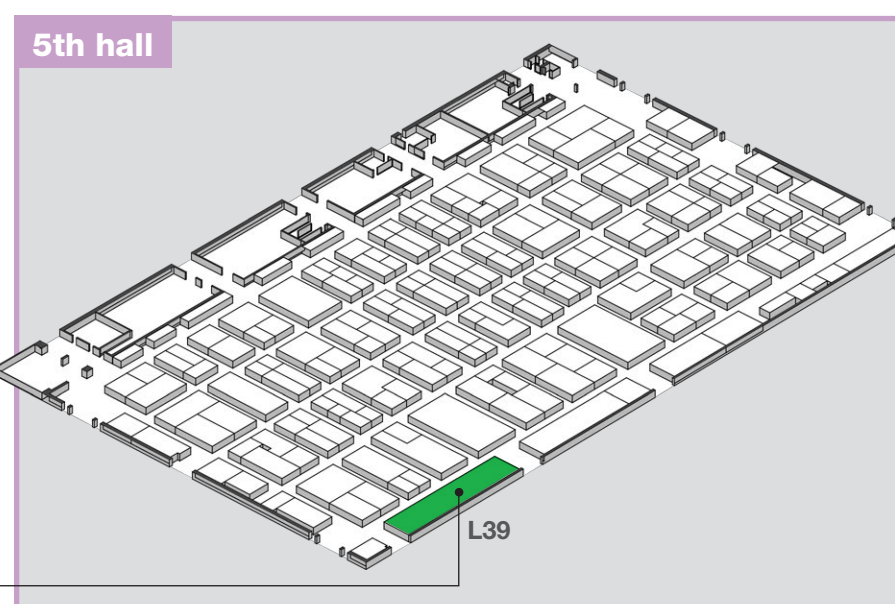
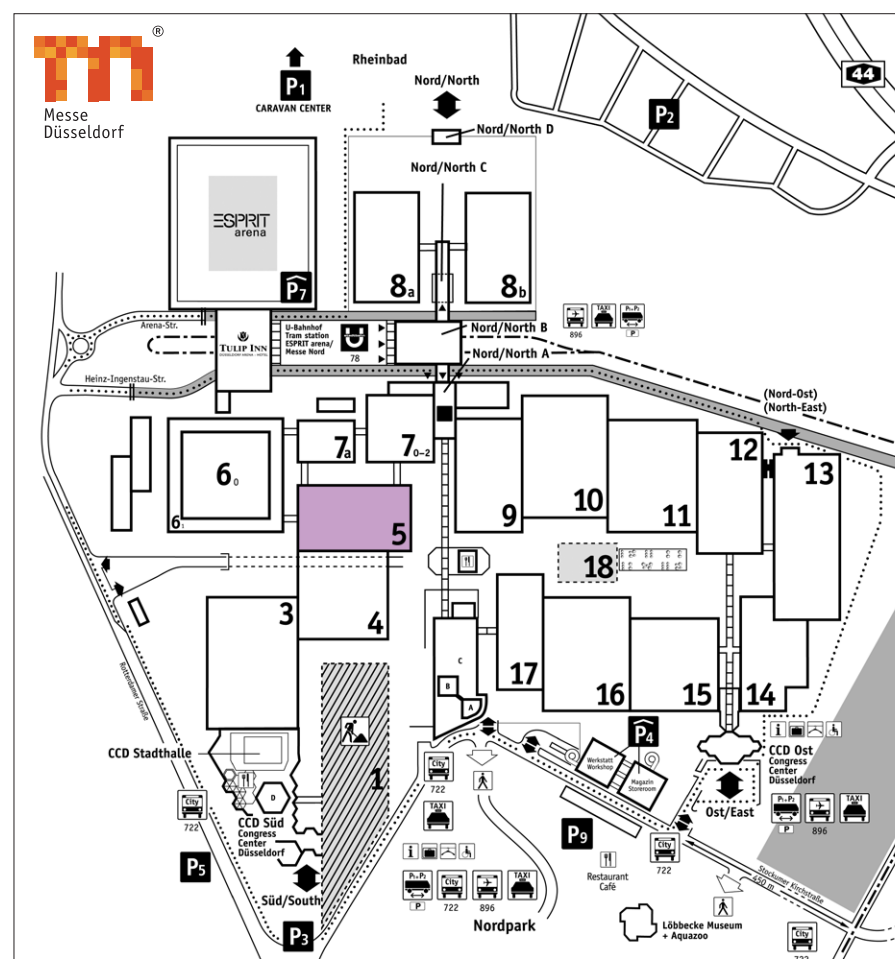
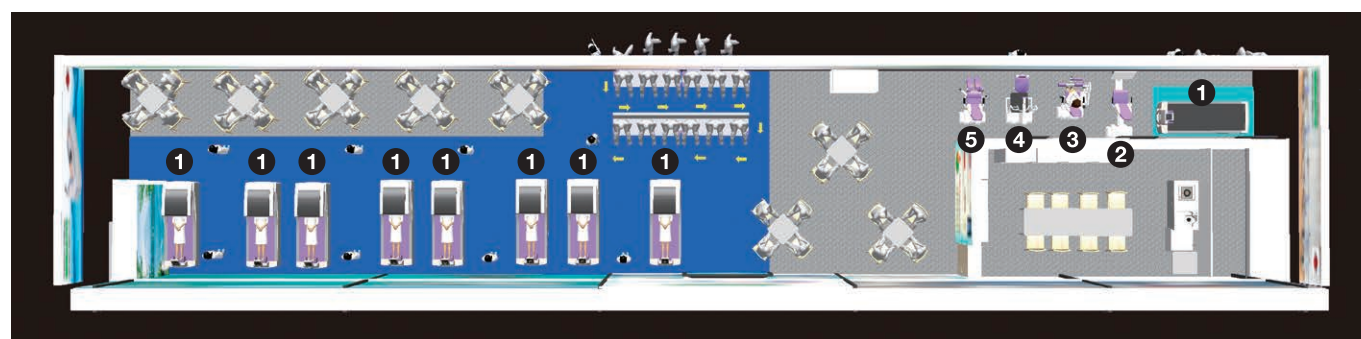
Minato Medical Science also has the largest share in the Japanese massage bed market. The most advanced product, the Aquatizer QZ-240, generates unprecedented stimulations and a wide variety of massage modes using its 4 nozzles. Minato Medical Science will set up a booth to hold a hands-on exhibition at MEDICA so people from all over the world can experience the comfort praised by visitors who have tried it at exhibitions in Japan. The 180 m<sup>2</sup> area will be equipped with 9 Aquatizer QZ-240 units. At the healing booth with comfort space, our experienced staff will offer hospitality and care to visitors

wanting to try our products. We welcome visitors tired of walking around the site, as well as those interested in the product's performance, to the Minato Medical Science booth in the

5th hall.

We will also display the Weltonic WTS-i, a series of fitness machines that support elderly people's exercise and training. The machines use an electronic load system and come with a built-in muscle strength measurement function. Safe and efficient

training improves old people's physical functions and prevents them from requiring long-term care. The Weltonic WTS-i series and Aquatizer QZ-240 comprise a lineup of products that embody "Training & Relaxation," which is Minato Medical Science's theme for MEDICA 2019.



- 1 Dry Hydro Jet Massage Bed **AQUATIZER QZ-240SG**.....9
- 2 Minato Medical Fitness Machine **Weltonic WTS-01i** .....1
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- 4 Minato Medical Fitness Machine **Weltonic WTS-03i** .....1
- 5 Minato Medical Fitness Machine **Weltonic WTS-04i** .....1

## World's Largest Scale Exhibition in Medical Field MEDICA 2018 REPORT

Minato Medical Science participated in the MEDICA 2018 exhibition last year, aiming to spread its ideal of "friendly healthcare," as well as products that have come about from it. Visitors had the chance to try out nine demonstration models of the dry hydro jet massage bed Aquatizer QZ-240 and experience their sheer comfort.

### Demonstration models consistently operating at full capacity

MEDICA 2018 was held on a scale worthy of its title, the world's largest. A total of 5,273 companies from 66 countries showcased their products. Of these, 90 were from Japan.

During the 4-day period from Monday, November 12, 2018 to Thursday, November 15, 2018, the event drew a total of 120,000 visitors, whose nationalities covered 155 countries. Minato Medical Science's theme of MEDICA 2018 was Training & Relaxation. In the approximately

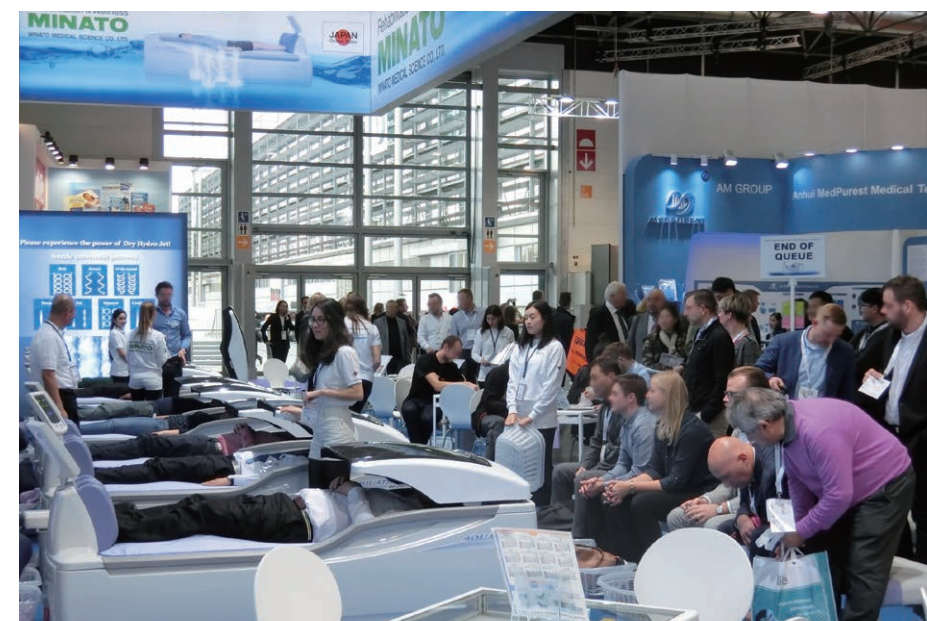
180 sq. me. area inside Hall No. 5, we set up nine Aquatizer QZ-240 units and four fitness machine models of the Weltonic WTS-L series and welcomed the visitors wishing to try them out. The eight demonstration models of the Aquatizer were in full operation from the time the exhibition opened at 10:00 a.m. until it closed at 6:00 p.m. Although we sometimes had 20 or more people waiting to have a turn on the machines, there was no major confusion and almost everyone left happy. Over the four days of the exhibition, around 3,300 people tested out the Aquatizer QZ-240, enjoying the comfort of the experience. This was 20% more than last year. Many of those people were apparently repeat visitors from MEDICA 2017.

## Helping to extend healthy life years with a cycle of training and relaxation

The purpose of "Training & Relaxation," a theme that Minato Medical Science proposes at MEDICA 2019, is to extend healthy life years with the effective cycle of training and relaxation that the elderly carry out to maintain their physical functions. To prevent elderly people from falling and suffering other accidents and to ensure that they lead independent lives requiring no long-term care, it is important that they maintain their physical functions such as muscle strength, flexibility, and balance.

The Weltonic WTS-i series is a training machine designed for elderly people. It comprehensively improves the muscle power necessary in their daily lives. Featuring a low-impact and safe design, the machine aims to realize training that can be continued. The Aquatizer QZ-240SG, on the other hand, meticulously massages the entire body to ease fatigue and, at the same time, makes the body more flexible. If flexibility can be boosted before starting muscle training, users can carry out movements safely, and

training effects can also be increased. After-training massage using the QZ-240SG quickly cools down the body to ease muscular fatigue. The pleasant massage refreshes both the body and the mind, motivating the user to continue training. "Training & Relaxation" is the answer proposed by Minato Medical Science for solving the problem of aging faced by Japan. We are confident that our concepts and the product technologies that support them will be rated highly in Europe as well.



## MINATO MEDICAL SCIENCE (EUROPE) GmbH

At MEDICA 2018, many of the medical professionals who tried out Minato Medical Science's products expressed a desire to introduce them in their own practices. To respond to these expectations for our model of "friendly healthcare," Minato Medical Science is actively pursuing the extension of its business to overseas

markets. MINATO MEDICAL SCIENCE (EUROPE) GmbH will provide a base for the expansion of our sales area, along with timely customer support. Customers can look forward to the further enhancement of Minato Medical Science's service structure in the future.







# Futuristic Comfort



Japan  
Good Design  
Award



## Dry Hydro Jet Massage Bed AQUATIZER QZ-240SG

Minato Medical Science's "Aquatizer QZ" series has constantly provided state-of-the-art instruments through unique design concepts in the area of dry hydro jet massage beds. These achievements and technologies have now been leveraged to generate a brand new dry hydro jet massage bed. The "QZ-240" is designed with futuristic style and equipped with cutting-edge features such as 4 nozzles, foot airbags, and an automatic height setting function. The new model offers the most advanced treatment, comfort, and operability of the dry hydro jet massage bed.

### 4 Nozzles with Switching Function (Wide Jets), Expanding the Variety of Treatment Options

Switching between the 4 nozzles (wide jets) and the 2 nozzles exponentially increases the variety of treatment options, including "wide-area treatment" and "intensive treatment for the target area." Combinations of

different nozzle movement speeds and jet intensities can provide a wide variety of effective massages. These features help provide custom-made treatments for patients with different conditions.



### Foot Airbags, gently holding the legs

**Improved Feel of Stimulation**  
The foot airbags prevent the legs from spreading apart, holding them in the position best suited for treatment.



With the legs held steady, the water jets can precisely target the calves and thighs, resulting in a greatly improved feel of stimulation.

### Reduced Head Movement

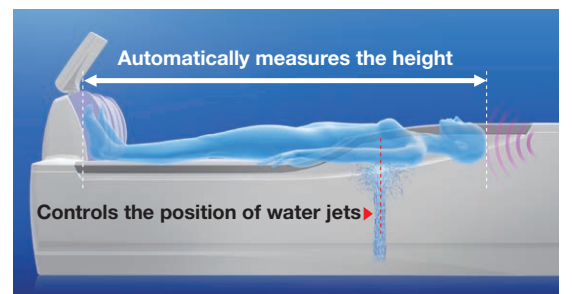
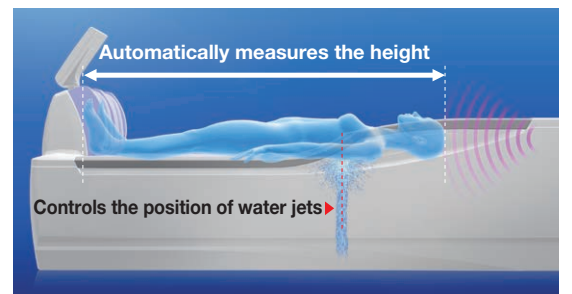
By gently holding the legs, the foot airbags keep the body position stable, reducing head movement.

### Easily Found Body Rest Position

The Aquatizer QZ-240's design is so user-friendly that even first-time patients can easily understand where to lie, by reclining on the bed and placing their feet into the foot airbags.

### Newly Mounted Sensor for Automatic Head Position Detection

When a patient lies on the bed, the sensor detects the head position, automatically measures the patient's height, and sets the area to be massaged according to the specified treatment site. Unlike previous models, the Aquatizer QZ-240 does not require individual height measurement, thus reducing burden on the staff.



## Training & Relaxation Case Study tri-care santé, Galmiz, Switzerland

A treatment and rehabilitation facility for the elderly and the disabled located in Galmiz, Switzerland. The tri-care santé - center for personal care offers valuable services in order to maintain individual health while maintaining personal independence. Using QZ-240, AQUATIZER, and WTS series, WELTONIC, people there practice "Training & Relaxation" with joy and keep on training that adds the muscular strength necessary to live long in health.



<https://www.tri-care-sante.ch/startseite/>

## A training machine exclusively for elderly users Weltonic WTS-i series

The Weltonic WTS-i series from Minato Medical Science uses an electric load system. It has excellent operability, is light-weight, and supports training with various functions enabled by the electric load system.



### Muscle strength measuring function

It has a muscle strength measuring function. Evaluation of the appropriate load before training enables efficient and safe training.

### Excellent operability

All operations other than positioning can be performed on the panel. In all models, the load can be adjusted in fine 10 N (1.02 kg) increments, and can be reproduced easily.

### Leg press

### Weltonic WTS-01i

The machine trains and strengthens the leg muscles necessary for movements in our daily lives such as standing up, sitting down, squatting, and walking. The foot harness and motion of the seat enables an exercise that closely mimics actual movements.



**Muscles trained**

- Musculus quadriceps femoris
- Musculus gluteus maximus
- Hamstrings
- Musculus triceps surae



### Leg extensions

### Weltonic WTS-02i

The range of motion of the knee joints is often small in elderly people. These exercises strengthen the musculus quadriceps femoris, especially the vastus medialis, thereby increasing the range of motion and length of stride, stabilizing the knees, and enabling individuals to climb stairs easily.



**Muscles trained**

- Musculus quadriceps femoris



### Rowing

### Weltonic WTS-03i

The machine trains the musculus latissimus dorsi and the musculus rhomboidei to prevent and improve the hunched back condition sometimes seen in the elderly.



**Muscles trained**

- Musculus latissimus dorsi
- Musculus rhomboidei
- Musculus trapezius
- Musculus deltoides
- Musculus erector spinae



### Abduction

### Weltonic WTS-04i

Weakening of the muscles around the waist leads to instability of the body. Exercise will increase stability of the pelvis, reduce wobbling while walking or standing on one leg, and prevent falling.



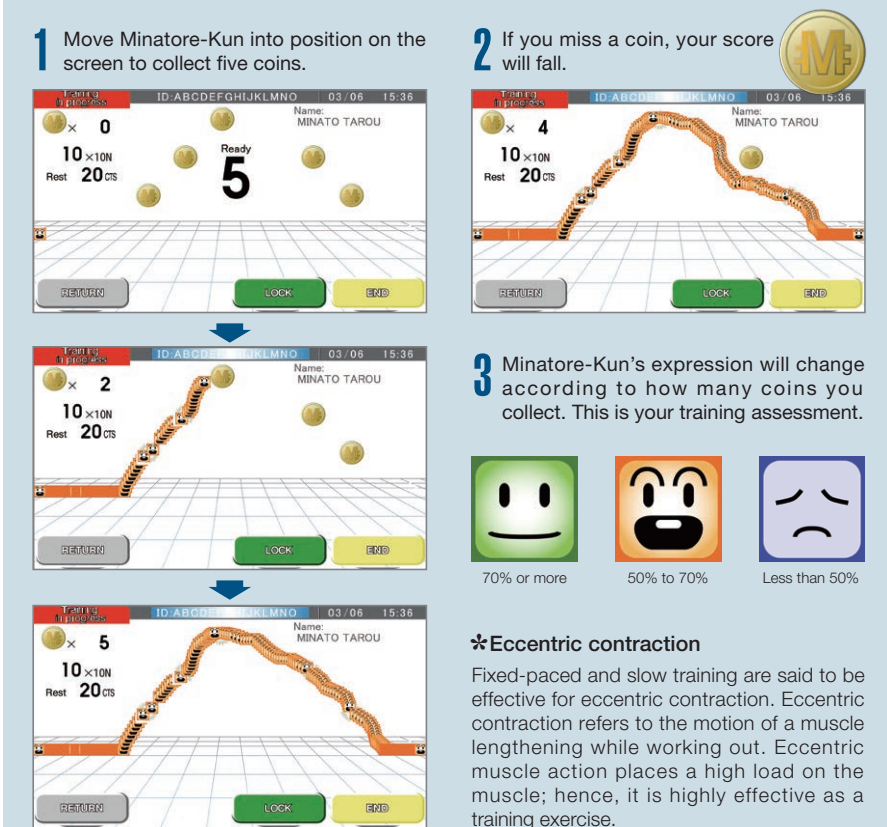
**Muscles trained**

- Musculus gluteus medius
- Musculus gluteus minimus
- Musculus tensor fasciae latae



## Fun and game-like training mode for proper eccentric contraction\* training INTERACTIVE MODE

The interactive mode incorporates elements of a game into exercise. The user exercises in time with the equipment's metronome function and operates as game character symbol "Minatore-Kun" who moves up and down in sync with the moving parts of the equipment to collect coins. By exercising while following Minatore-Kun's movements with one's eyes and ears, the user can perform both fixed-paced and slow training.



# Minato Medical Science proposes the concept of "Training & Relaxation"

Japan, a world leader in longevity. Engaging in physical exercises and muscular training from an early age onward, when a person is healthy, is considered important for extending his or her healthy life years. However, elderly people often find muscular training "tough and painful" and "not enjoyable." Therefore, Minato Medical Science proposes the concept of "Training & Relaxation" to make it easier for elderly people to continue difficult muscular training.

## Minato Care Station, a rehabilitation facility run by Minato Medical Science

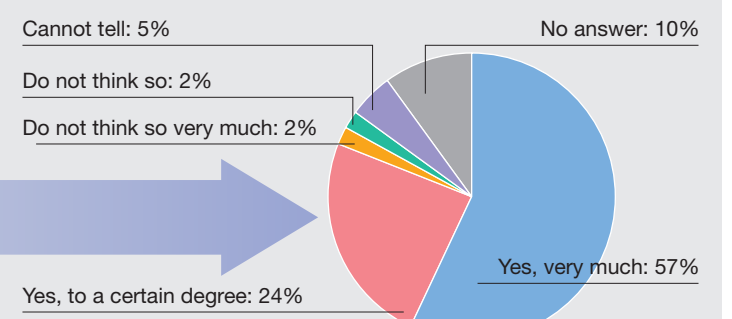


**Minato Care Station**  
A day service center specializing in rehabilitation

## Findings of a questionnaire survey conducted on 58 Minato Care Station users

More than 80% of the users said that the Dry Hydro Jet Massage Bed motivates them to continue training.

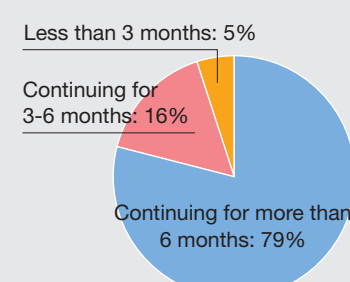
Does the Dry Hydro Jet Massage Bed help you to continue your exercises?



Among the 58 Minato Care Station users, 46 (79%) will continue to undergo training for 6 months or more.

It is noted that 84% of the users who continue their training for 6 months or more are aged between 71 and 90 years.

### Period of continuing training



### Age makeup

(users who continue their training for 6 months or more)

