

With the *MOTomed*[®] *gracile* for your child's well-being



MOTomed[®] MovementTherapyDevice

passive | motor-assisted | active movement

Motorized MovementTherapyDevice – specifically designed for the needs of children and small adults. With an intelligent and easy-to-use operator guidance, on a color display.



Motor-Assistance
and SpasmControl



The Convenient Configuration

- Motor Drive with the MovementProtector
- Easy Wheelchair Access
- Continuous Foot Shell Height Adjustment
- Narrow Pedal Distance



MEDICAL CONDITIONS

Cerebral palsy, spina bifida, traumatic brain injury, tetraplegia, paraplegia, hemiplegia, muscular dystrophy, muscular diseases and children with heavy spasticity.

GOALS AND BENEFITS FOR YOUR CHILD

- **Reduce Spasticity, Become More Flexible**
Loosen up muscles in the case of sudden spasms or any general stiffness.
- **Rediscover and Build up Residual Strength**
Residual strength which is either handicapped or insufficient to make a complete movement can be rediscovered and applied again.
- **Counteract the Consequences of Lack of Movement**
Stiff joints, shortened muscles, brittle bones (osteoporosis), circulatory problems, digestive problems. With a daily MOTOmed Therapy you can help to avoid cost intensive treatments or therapies related to these illnesses. In many cases even medication can be decreased.
- **Promote Walking Ability**
Maintain and increase basic fitness (i.e. endurance, muscle strength) and coordination of movement flow necessary for regular motion sequence. Reduce limiting muscle stiffness. Improve confidence in your walking and stabilize your gait pattern.
- **Strengthen the Sense of Mental Well-Being**
Exercise regularly. It is a good feeling to do something for yourself. It will have a positive effect on your sense of mental well-being. Physical movement increases the amount of happiness hormones in your body.

THERAPY OPTIONS FOR YOUR CHILD

MOTOmed MovementTherapy; a pleasant cycling movement

1. Passive Movement:

Legs or arms are moved gently by the motor: This passive training is particularly beneficial for users with spastic paralysis. It also has a positive effect when used as a preparation to physical therapy sessions. Muscles in legs or arms can be loosened. In many cases, the muscle tone can be positively influenced and even decreased through the passive motion.

2. Motor-Assisted Movement:

The ServoCycling function (with motor assistance) can enable the children to start their rehabilitation process at an early stage. It helps them use and encourage even the smallest muscle strength. Any impulses from the legs are intensified by the MOTOmed gracile which causes an acceleration of the pedal rotation.

3. Active Movement:

This active training can be compared to ergometer training. The child cycles against a set resistance level which ranges between 20 finely regulated gears. The color display shows the child's performance (in approx. watts) during and after the training session.



The MOTOmed MovementTherapy keeps you animated.
Marco (age 11), Daniel (age 8), Sarah (age 16)

MOTomed® gracile – Specifically Designed for the Needs of Children

Benefit From the Convenient Configuration



UNIQUE FEATURES

Children have different needs than adults. The MOTomed gracile accommodates those requirements. This children specific machine (starting at a body height of approximately 90 cm/35 in.) provides a small foot shell distance and a continuous pedal height adjustment.



Continuous Pedal Height Adjustment

The MOTomed gracile is the first pediatric MovementTherapyDevice that provides height adjustability of the pedal axle on the foot shells, with a height adjustment that ranges from 26 to 46 cm / 10.24 to 18.11 in.

As your child grows, the MOTomed gracile can be individually adjusted to different wheelchair and seating heights.

Individualized Adjustments

Adjust the height and the distance of the MOTomed gracile 12 to your child's needs.

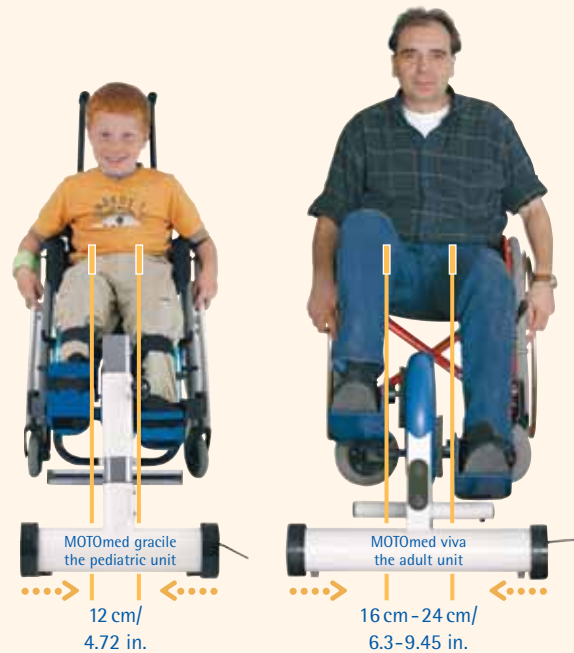
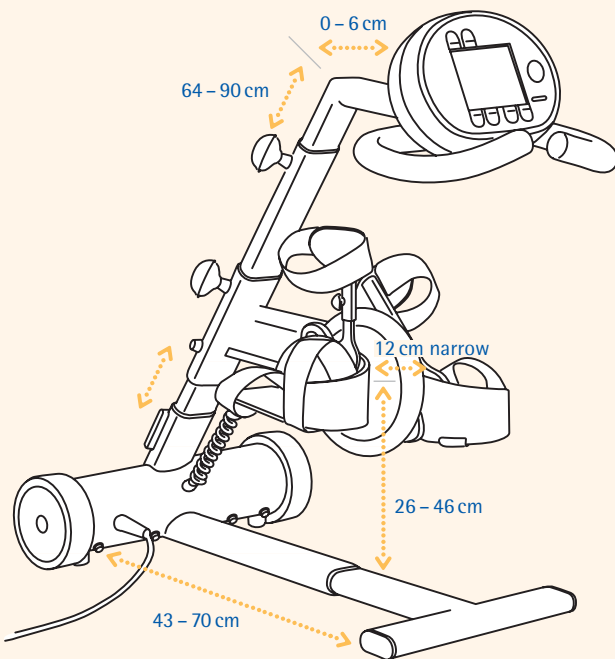
Notably Narrow Pedal Distance

Children's hips are narrow compared to adults' proportions.

The inner rims distance of the MOTomed gracile is 12 cm / 4.72 in. which makes it 30 % less than the foot shell distance of other movement training devices.

Thus, children with narrow hip or narrow leg positions can train without being forced into a bad posture. For the knee and hip joints, it is particularly important that bad postures are avoided during cycling movement.

1 cm ≈ 0.4 inch



Simple Operation

The big color display (11.3 x 8.5 cm / 4.45 x 3.35 in.) with an optical font, large graphics and buttons that make the user operation easier.



The operator guidance and training analysis, shown on the big MOTomed gracile display, are available in 26 different languages (no surcharge).



Functions

The functions of the MOTomed gracile are especially geared toward pediatric requirements. A multitude of possible adjustments enables individual adaptation according to the needs of the child.



Safety Software

MovementProtector and SpasmControl with an automatic change of rotation direction. The MOTomed MovementProtector recognizes sudden spasms. The motor stops smoothly and the pedals are stopped gently.

Important: According to the therapeutic principle, the MOTomed SpasmControl seeks the suitable movement direction into which the spasm can be loosened.

For Your Safety: The MOTomed MovementProtector (motor power) constantly adapts to the basic muscle tone (muscle tension) and is therefore optimally sensitive at all times. Even weak spasms are detected reliably and can be treated. This way, the maximum safety for your child can be guaranteed.

Residual muscle strength training with MOTomed ServoCycling

With the MOTomed ServoCycling function, residual muscle strength can be discovered and improved. Any impulses coming from the legs are intensified by the MOTomed gracile which causes an acceleration of the pedal rotation.

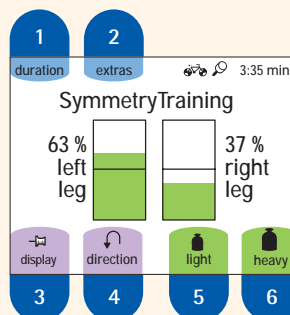
This active-assistive training can activate and build up even minimal muscle strength and is also suitable for one-sided paralysis. To ensure your child's safety, the SpasmControl is always active, even in the active mode.



"ServoCycling"
 A bicycle appears on the screen during the active mode.

TherapyProgram – SymmetryTraining

The activity input of the left and the right leg is measured throughout the training (for arm training available as accessory). Graphics and large numbers (up to 0.8 in. high) on the screen provide visual feedback.



"SymmetryTraining"



Pascal, age 7, loosening up with the MOTomed training

Strong spasticity can often be reduced more effectively while in a lying position. Especially beneficial for that is the Knee Bending Aid (item no. 584).

Technical Data

- Measurement: 100 x 48 x 52 cm / 39.37 x 18.90 x 20.47 in.
- Weight: leg trainer 25 kg / 55 lbs
- Weight: leg and arm trainer 35 kg / 77 lbs

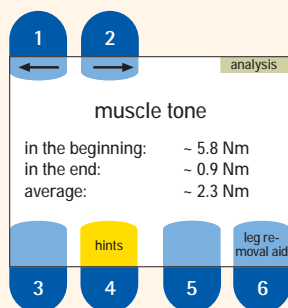
- Mains voltage: Determined by country specification
- Display: 11.3 cm (w) x 8.5 cm (h) / 4.4 in. (w) x 3.3 in. (h)
- Medical product grade MPG IIa

Automatic Training Feedback

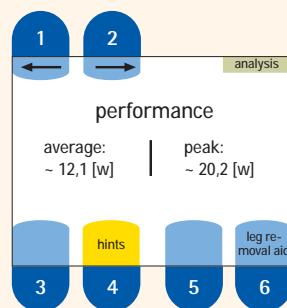
The large MOTomed screen automatically shows your child's current training mode. During active and passive training, various training parameters are continuously displayed.

- Motor-assisted passive training. Feedback about any muscle tone change is displayed on the screen during the training.

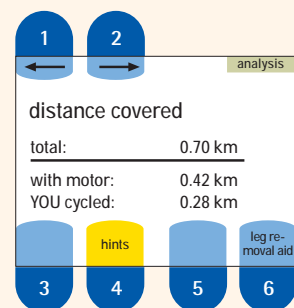
- Active training with own muscle strength (no motor assistance) and active-assistive training (motor-assisted ServoCycling). Further feedback about own performance (in approx. Watts), distance covered (km or mi), and SymmetryTraining (left-right leg activity, see page 4). This direct success feedback is fun and motivating.



"muscle tone"



"performance"



"distance covered"

Detailed Training Analysis

After each training session, a summary of important training data is provided through the analysis. This way, training progress can be monitored and a well aimed training plan can be created.

Following training parameters are shown:

Passive Training:

- Changes in the muscle tone
- Duration of training (with motor)
- Distance covered (with motor)

Active Training:

- Performance in approx. watts
- Calorie consumption
- Duration of training (without motor)
- Distance covered (without motor)
- Left-right leg activity

Stephanie, age 11, is thrilled by the MOTomed gracile12





Handlebar

- To hold on during the training
- Integrated, easy-to-reach operating panel with a large color display
- Height adjustment from 64 to 90 cm / 25.20 to 35.43 in.
- Horizontally adjustable by 8 cm / 3.15 inches (distance to the child)



Pedal Radius Adjustment (2 levels)

Within seconds the pedal radius can be decreased (3.5 cm / 1.38 inches) and increased (7 cm / 2.76 inches) with an Allen key.



Pediatric Foot Shells

The foot shells are softly padded and have a high side panel for support as well as for foot and ankle protection.



Pediatric Leg Guides With Calf Shells

- Provide secure leg support and guidance for various kinds of paralysis
- Comfortable attachment with fleecy Velcro straps
- Height adjustment with flexible calf shells to prevent pressure marks

Color Selection

Following colors are available at request:

- 1) Flipper: clear blue, standard color
- 2) Speedy: bright, sporty red
- 3) Skippy: warm, soft yellow
- 4) Jungle: natural green

(colors 2-4 with surcharge)





Self-Operating Foot Holders (item no. 598)

- Soft foam rollers gently and securely fasten the feet for a firm hold even during strong spasms
- The safety lock provides a strong hold, even in the case of a strong spasm
- For inserting and removing legs quickly and easily without any extra help



Height Adjustment of the pedal axle with pneumatic spring system (item no. 621)

- Easy and exact height adjustment with pneumatic spring (135 Nm)
- Important for facilities treating children with different body heights, training on the MOTomed



Safety Foot Shells for Adults (item no. 596)

- For adults and teenagers with larger feet
- The leg guides are available as accessory



Pedal Radius Quick Adjustment, 3 levels (item no. 588)

- For a quick change of the pedal radius
- Adjustable in 3 levels (5.6-10.5 cm / 2.20-4.13 in.)
- When mounted to the MOTomed gracile12, the distance between the inner rims of the foot shells is widened about 2 cm / 0.79 inches



Arm/Upper Body Trainer with Motor (item no. 599)

- Can be swung in and out of the training area
- Enough leg space during the upper body training
- With an integrated handlebar and an adjustable pedal radius
- No tools required to adjust the ideal training height



Pediatric Forearm Shells with Arm Cuffs (item no. 556K)

- Provide secure fastening and guidance the heavily paralyzed arms; with padded arm cuffs
- Flexible: The forearm shells are adjustable to the natural arm movement, making even a lateral movement possible
- Other arm/hand fixations are available. Ask us for more information!



MOTomed CycleRace Training Game

The complete package consists of:

- 1) Steering wheel with integrated Joystick
- 2) Motivating "CycleRace" program (software)
- 3) Serial interface (item no. 214)
- 4) Connection cable (PC interface cable)
- 5) Handlebar adjustable in inclination (item no. 519K)

MOTomed CycleRace encourages the interplay between the child's motor skills, the vision and the cognitive abilities. This training game also offers a controlled training optimization.

(system requirements: Windows 2000, XP, Vista)

MOTomed® MovementTherapy – Valuing Movement

See for yourself. Call for a free trial!

Demonstration

All MOTomed demonstrations are organized by your MOTomed team.

The demonstration is free of charge and non-bonding.

Interesting

In many cases, the MOTomed gracile is also suitable for adults:

- For individuals using wheelchairs with permanently mounted foot rests
- For individuals with short legs and / or a narrow hip position

The basic model includes the following functions

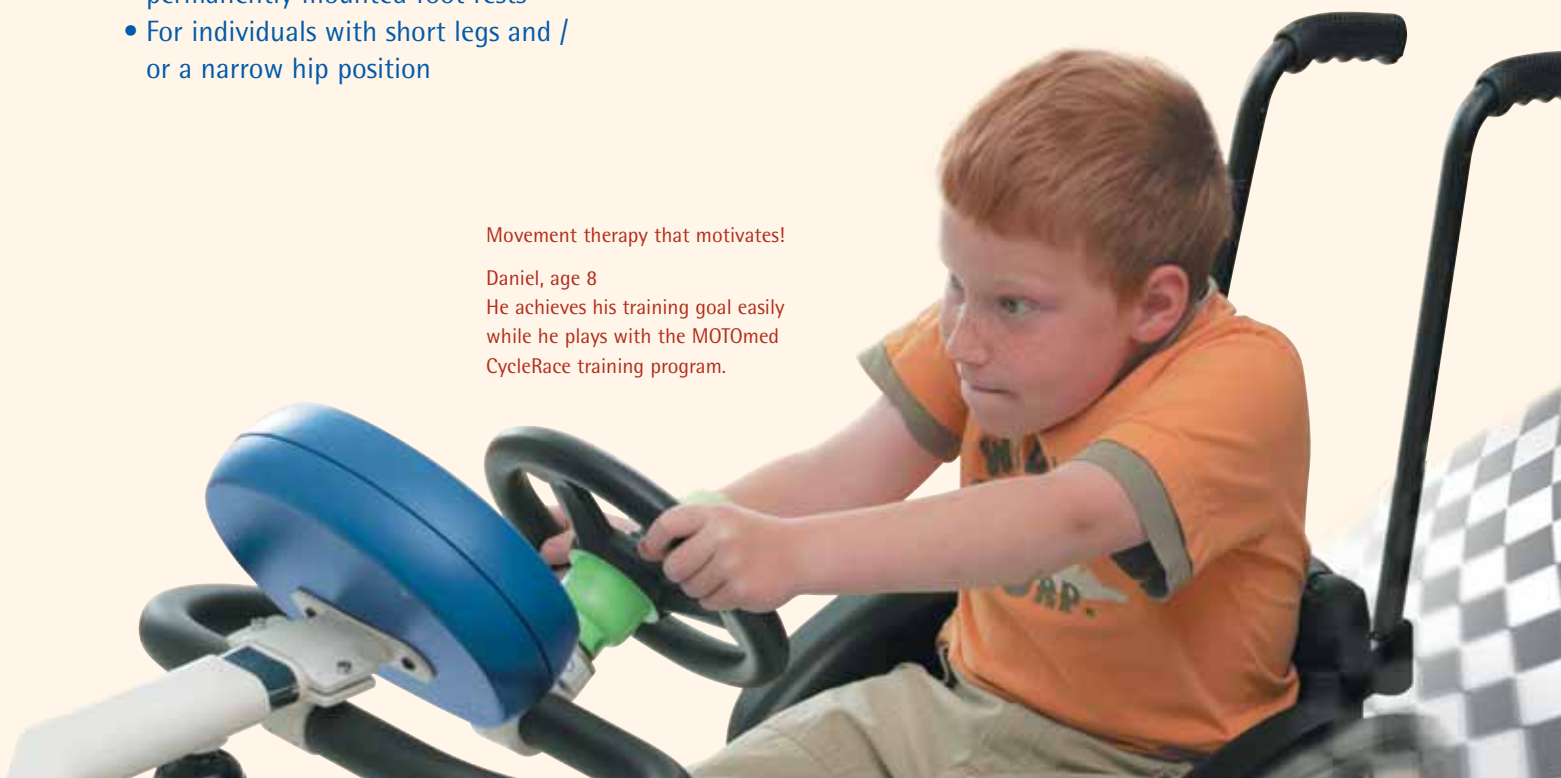
Intelligent, computerized movement therapy; safety software: SpasmControl (easing spasticity) and MovementProtector, SmoothDriveSystem, ServoCycling, leg SymmetryTraining, real-time TrainingAnalysis, leg insertion/leg removal aid.

The operating panel is available in 26 languages.

Movement therapy that motivates!

Daniel, age 8

He achieves his training goal easily while he plays with the MOTomed CycleRace training program.



Reck Medical Technology

Experience and Competence

Since 1981, the Reck MOTomed MovementTherapy is successfully used worldwide. Satisfied users, doctors and therapists confirm the benefits and success of the MOTomed MovementTherapy.

The Reck Company; a 50-year old family enterprise is the inventor of the passive, motor assisted, active movement therapy with SpasmControl. Its 200 employees engage in constant first-hand researching, consulting and production. Take advantage of the MOTomed Therapy and get moving in the right direction!

Quality and Variety

There are eight MOTomed basic models with 85 accessory parts enabling an optimal product adaptation to individual needs. Therapy success is

supported by special programs. Typical "Made in Germany" attributes such as innovation, high quality, reliability and safety make Reck MOTomed the world market leader.

Consultation and Service

Convince yourself by doing a free MOTomed trial. We will be happy to assist you with choosing the optimal MOTomed and suitable special programs. Call your local representative or send an e-mail to

contact@motomed.com

Free information material (such as brochures, experience reports and studies) is available also for your doctor and therapist.

Your MOTomed Representative:

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MovementTherapySystems

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contact@motomed.com, www.motomed.com

„Made in Germany“



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related technical changes. Some mentioned
items are special accessories.

MOTomed[®] gracile – Special Edition For Special Diseases

MOTomed gracile 5-15

- For particularly narrow hip position
- Pedal crank axle adjustable in height from 26 to 46 cm / 10.24 to 18.11 in. (measured from the ground)
- Continuous adjustment of distance between the foot shells (5 to 15 cm / 1.97 to 5.91 in.)
- 2-level pedal radius adjustment (tools required)



Call your local representative for a free trial of the MOTomed gracile.

Stamp

To

RECK MOTomed[®]

RECK-Technik GmbH & Co. KG

Reckstr. 1-5

88422 Betzenweiler

GERMANY

Reply Card

MOTomed[®] gracile

Specifically Designed for
the Needs of Children.

Last Name

First Name

Street, No.

City, Zip Code

Country

Phone

E-Mail

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MOTomed[®] gracile

Financing Your MOTomed MovementTherapy

MOTomed funding through regional humanitarian organizations, health boards and associations, or even insurances.

Contact the local institution near you.

It may pay off!

Vanessa (age 9) is training on the MOTomed gracile12 with arm/upper body trainer



Call your local MOTomed representative for a free trial with the MOTomed gracile.

Send us back this reply card or call us at:

Phone: +49 (0) 73 74 - 1885.

Yes, I want to learn more about the MOTomed MovementTherapy for children.

I am interested in a free trial. Please call me.

Date: Time:

Please send me free information material to:

- Detailed product overview
- Gracile experience reports for my doctor/therapist
- Information about different MOTomed models

