



**the electric rollator**  
**for more comfort and mobility**

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ello



# Discover ello. The rollator of the next generation.

## ello the electric rollator.

Developed and produced in Germany, ello represents the generation of modern rollators. The powerful electric motor in the rear wheels supports you at every step. That saves energy, especially uphill. And downhill ello brakes automatically - for more security.



# „ello is the new premium class among the rollators”

Developed and produced in Germany

ello is the electric rollator that offers **more user convenience** – supports mobility and quality of life via simple and intuitive operability.

With light, horn and SOS function\* the user is noticed better in daily life and this **improves his security and independence**. The walking speed of ello can be adjusted individually. As a result, the user saves energy for braking and falls can be avoided.

The **additional climbing aid** (e.g. for kerbs) allows the user to **overcome obstacles** easily. ello can be operated also with one hand only and frees up the user in his movement coordination. In addition, the user is protected by the **integrated emergency system\*** in all every life situation.

With the active sale of our ello at your premises you have the possibility to **represent yourself innovatively** and up-to-date.

E-mobility is THE future topic and you enlarge and perfect your rollator product range with ello. With this enlargement of your product range you have the possibility to offer your existing clients an **innovative and modern product**.

In addition, you can extend your new business and achieve a competitive advantage. And the great thing is that you are supported by us with active product communication.

\* only in Europe





# Where rollators give up, ello gets going

Many users of conventional rollators have significant difficulties in daily use

**83%** of the rollator users have difficulties in braking downhill.

Walking downhill with a rollator is a problem for the majority of the rollator users. The rollator threatens to roll away due to the tare weight – even if the user does not lean on the rollator. Older people are not able to control effectively the speed with the installed mechanical brake due to a lack of sensitivity in the hand. For the majority of the rollator users, mobility ends with a gradient. This is not the case with ello: The electric motor brakes independently and keeps the adjusted speed with each gradient.

**77%** of the rollator users have difficulties with kerbs and edges.

With a kerb, the rollator has to be lifted or the border has to be overcome by walking backwards. The majority of the users is not able to lift their rollator. Walking backwards entails risks. Thanks to the climbing aid, the front wheels of ello can be lifted easily – without physical effort.

**76%** of the rollator users have difficulties in walking uphill.

When walking uphill, the problem is that even a not loaded standard rollator has a weight of 8 kg minimum. For older people with less power it is very hard to overcome even light gradients. This leads to incorrect posture and rapid exhaustion. ello saves energy. The powerful electric motor masters every gradient – even with heavy purchases.





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# Security in case of impairments – thanks to ello

**For various syndromes you obtain quality of life and security with ello**

A stroke or a paralysis can heavily impair the motor skills. In this case, ello offers the possibility to **adjust and enhance the brake function individually** in order to make it easier for the user to keep lane. In addition, the lane keeping function of ello can be adjusted. Consequently, the front wheels offer more stability.

**ello is adjustable in height** and can be adapted individually to the body height.

Limitations with regards to mobility due to multiple sclerosis have an impact on all areas of life. A majority of the concerned struggles with restricted mobility in the course of the disease. Already marginal limitations in mobility have in most cases substantial impact on everyday life, private and professional life. **ello offers assistance in walking** for multiple sclerosis patients and **offers more security and stability as a usual rollator**.

During development of ello, security had top priority. The electric brake works automatically in case it has been forgotten to activate the mechanical brake. In case the user does not remember anymore where he has parked ello or he loses his way in the city, **ello can be located easily via GPS\*** – provided the user agrees.

\* only in Europe





# One idea. Many partners. Made in Germany.

**ello is far more than an electric motor with four wheels.  
ello consists of innumerable ideas of our numerous partners.**

## **University Stuttgart, Germany / Institute for Machine Elements**

Since 2013, the Institute for Machine Elements of the University Stuttgart accompanies the development of ello.

## **Robert-Bosch Hospital, Stuttgart, Germany**

Our partner for medical aspects:

The Robert-Bosch Hospital, Stuttgart, Germany assisted us with the clinical evaluation of ello.

## **University Stuttgart, Germany, IKTD (Institute for technical construction and technical design)**

Our experts for the design of man-machine interfaces: Together with the IKTD of the University Stuttgart, Germany, we developed the simple handling and the ergonomic design.

# Always one step ahead

## Ready to start in an instant

### 1. Insert battery

The round form of the battery cannot be inserted incorrectly. The battery snaps by turning into the holder.

### 2. Switch on ello

The keypad has a clear format, with large symbols for easy handling.

### 3. Choose speed

Adjust the desired speed via the plus and minus buttons.

### 4. Apply thumb & start

For your safety, ello only starts when you put your thumb on the sensor. In case of need, ello stops immediately as soon as you remove the thumb.

## ello offers many unique advantages – for more comfort and unlimited mobility:



### Help at the push of a button\*:

In case of an emergency ello sends an emergency call with the GPS data to the stored contacts. The SOS function offers more security and can save lives.



### Inconspicuous technology:

The motor is in the rear wheels and is so powerful that ello runs uphill and brakes downhill. In addition, obstacles can be overcome more easily.



### Mobile without limits:

The battery has a range of 10 km and can be charged easily overnight (6 hours). In case the battery is empty, ello can be operated as a conventional rollator.

\* only in Europe

# SOS function

## A comfortable feeling for users and their relatives

Seniors and other users of ello would like to remain independent and mobile. However, situations may arise where you need help. Either in case of a dizzy spell or the way back home cannot be found anymore. ello has an integrated SOS system which enhances the level of security. In case of an emergency, up to three stored contacts can be informed about the GPS position. The service has to be activated prior to use.

### Activation and management of the SOS system\*

Upon delivery the SOS system\* of ello is deactivated. A request form is attached to each ello – the user completes this form together with his specialist dealer and sends it to eMovements. eMovements creates the contact data in the system. In addition, the GPS/GSM module integrated in ello, has to be activated – this is described in the user instructions / settings menu. In case contacts, telephone numbers or email addresses have to be changed, this can be done with eMovements over the phone.

### User activates the SOS emergency call

#### Location is transmitted

SOS system free of charge during the first year

The system is free of charge for one year from date of purchase. Afterwards, it can be booked against an annual fee. There is no automatic renewal. No additional costs result from the activation of emergency calls.

\* only in Europe



### Operable intuitively:

All control elements are designed for intuitive handling. Simply adjust speed and put the thumb on the sensor: ello starts automatically.



### Safety first:

For better perception in traffic, ello has an integrated light and a horn. If needed, you can attract attention with those features.



### Individually adaptable:

Speed and all other functions can be adapted individually to your needs. Thus, ello supports as required.

# Break new ground in e-mobility, together with us

Get a new feeling of security and independence



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Rollators allow people - who are or cannot be mobile – to carry on moving freely and to maintain their independence. The rollator is a constant support while walking for disabled or physically weak persons and is partly equipped with additional accessories. In order to guarantee security while sitting, standing and resting, rollators are equipped with lockable brakes. ello differs from conventional rollators and offers more security and comfort.

## **Uphill**

The electric drive “pushes” the rollator autonomously with the walking speed adjusted by the user. With that ello takes the additional weight from the user and the user can concentrate on walking. Moreover, he can count on the security of the rollator.

## **Downhill**

Downhill, the drive controls the speed automatically so that the user has not to brake on his own and the rollator does not roll away. The user can concentrate completely on walking and can also count on the security of the rollator.

## **Obstacles**

Obstacles, like kerbs, can be overcome easily by moving forward. The drive in the rear wheels pushes up the front wheels gently by lightly holding the electric rollator. Lifting of the rollator and additional physical effort get unnecessary. We recommend that this function will be demonstrated.



<b>Prevention of falls by rolling away</b>	In case the automatic brake is activated (standard) a fall caused by the sudden rolling away of the rollator will be avoided – e.g. in case of a dizzy spell. The control steers in the opposite direction immediately in order to either establish the adjusted walking speed (thumb is on the sensor) or to stop the rollator (no thumb on the sensor). The sensor surface is designed like this that an accidental start is prevented but that the user takes his thumb from the sensor intuitively in case of danger.
<b>Additional load</b>	The benefit of the electric rollator uphill, downhill, over obstacles but also on even ground is enhanced appropriately by an additional load as the rollator has not to be pushed or braked itself. In addition, the bag fixed in the front can be loaded more, as the additional weight of the rear wheels shift the centre of gravity. Because of the additional tare weight of the electric rollator it is less suitable for loading / unloading e.g. in a car.
<b>Safety in the dark</b>	With the light installed as standard, the way in front of the rollator can be illuminated and the light helps to be better visible for other road users.
<b>Uneven ground</b>	On uneven ground a non-electric rollator is harder and heavier to push as it is "pushed down" automatically whereas the electric rollator has enough power with its self-propulsion for rough terrain.
<b>SOS service*</b>	The emergency call service is very popular – for the users and for their relatives. It promises a safe feeling and offers the opportunity of quick help in case of emergency. As the emergency call service is normally linked to a landline phone, this safety ends at the door. With the integration in the electric rollator, this safety can be taken outside. The installed SIM card (inclusive for the first year, no automatic renewal) can dial up in all mobile networks and by this guarantees optimal coverage. Numbers can be stored easily. A text message with the current location will be sent to the stored numbers by a long press of the SOS button. A speech interaction is not intended until now.
<b>Theft protection*</b>	Rollators can be stolen as well. Besides safety accessories like a lock, the electric rollator can be located via GPS. With this, a return is more likely also in case the rollator has been left by mistake. In addition, an ello insurance is available, which offers an extra security for the rollator.
<b>Attractivity</b>	Persons who have a basic sceptical attitude towards rollators can be tempted to a higher acceptance by individual design elements e.g. light, the proceeded technique and subtleties as a horn.
<b>Other</b>	Inconspicuous technique, capacitive ergonomic sensors, battery charge via magnet plug, individual adjustment and easy operability



# Arguments in favour of ello

## Support for successful sale

eMovements GmbH supports you with simple and clear arguments in order to make sale easier. With these arguments you are on the safe side and you are able to present ello authentically to your customers.

### **Why do I need an electric rollator?**

The advantage of ello is that it brakes automatically downhill. Other rollators get faster and faster downhill. A study conducted by the Robert-Bosch-Krankenhaus / Stuttgart / Germany says that 4 of 5 users have problems with this. This can be avoided with ello.

### **The rollator is running away!**

That is not happening. The speed can be adjusted individually to the walking speed of the user. The speed can be adjusted between 0,5 and 5,5 km/h. This avoids the rollator rolling away from the user. ello stays with you and therefore offers safety and independence.

### **The usage is much too complicated!**

ello has been developed by specialists with the focus to make handling as easy as possible for older people. ello is characterized by the fact that the complex technology can be operated very easily and intuitively.

### **With a stretched thumb holding is hardly possible.**

A stretched thumb is an unusual posture for human beings. In case the user is unstable he can loosen his thumb rapidly from the bevelled sensors in order to hold himself. With that, the brakes will be activated automatically without pressing them actively. The rollator stops immediately, and the user is safe.

### **I already have an emergency system.**

Compared to other emergency systems, ello is not linked to a landline phone. Consequently, the SOS function of ello is also available outside home. The SIM card installed can dial up in all European mobile networks and can therefore also be used on holiday.

### **ello is too heavy.**

ello weighs with its 14 kg only 3 kg more in average than standard rollators. In addition, the weight of ello has not to be pushed anymore by the user as this is done by the drive. With the climbing aid (e.g. for kerbs) lower obstacles can be overcome very easily. The advantage of the weight is that this ensures more stability.

### **The rollator is far too expensive!**

ello offers much more functions, advantages, mobility and quality of life than other rollators. Relatives can rest assured as they know that the risk of falling is diminished significantly and with the SOS function they can be informed rapidly and simply in emergency situations. In addition, engineers from Stuttgart/Germany have been working for almost 3 years on the development and now they present a top-quality product with a wide range of safety features.

### **Why purchasing an electric rollator instead of an electric scooter?**

ello is absolutely unique in its class and in its use. The amazing thing is that ello offers more user convenience and enhances mobility and quality in life. The active movement of older people is highly promoted everywhere and is the best medicine. Movement promotes good health and they gain vitality and joy of life.

# Your answers

## Ensuring that no open questions remain

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Technological and innovative products are often not self explanatory and questions come up. We are pleased to support you so that no questions remain open and you can give the perfect answer to your customers.

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### **Is ello funded by the health insurance?**

Health insurances offer low flat rate payments which are not relevant for ello. For a number of years, people have got used to the fact that a rollator is a product on private basis.

### **How fast can ello run?**

From lower walking speed, up to faster walking speed - technically possible up to 5,5 km/h.

### **Can ello carry persons? (or: is it possible to install a plank at the back in order to place oneself on it?)**

This is theoretically possible. But this is exactly what we do not wish. Human beings have to walk on their own in order to stay healthy.

### **How much weighs ello?**

We remain below 14 kg – including battery. Most of the weight is in the rear wheels – due to the technology – which leads to good handling characteristics.

### **How much weight can ello stand?**

ello is loadable up to 120 kg (valid for the seat net not for additional load in driving mode).

### **How much weight can I load into the bag?**

We recommend 5 kg. According to own tests, ello can stand also 15 kg.

### **How long does the battery power last?**

One usage day. 2-3 hours operated under full load (e.g. uphill with full speed and light turned on).

### **How long does it take to charge the battery?**

The battery can be charged simply overnight – app. 6-8 hours.

### **How can the battery be charged?**

The battery can be removed easily and can be charged at home with the power supply provided.

### **How does the emergency system work?**

The SOS button has to be pushed for 3 seconds. A text message is sent to the stored contacts with the current location and an online map link. (requires activation).

### **How much watt power / which engine power do the motors have?**

Each motor has 80 watts.

### **What kind of battery does ello include?**

It is a light lithium ion battery.

### **What is the material of the wheels?**

The wheels are of special hard rubber which is very durable regarding abrasion.



# Advantages of ello

## On the basis of the settings menu

ello is a rollator which offers more security and mobility already with its basic functions. But each user has another view with regards to speed or another need for stability. Additional functions of ello can be activated in the settings menu which make the rollator an individual product. This means that user requirements can be met completely.

### Individual speed

**ello does never run faster than the maximum speed and stays always close to you. A safe companion.**

You can determine a maximum speed and a minimum speed. This means that you can tailor the speed range to your needs. With a wide range you can cover low speeds as well as high speeds. With a small range you determine yourself which speed is best for you and ello remains in this speed range in any case.

### Lane keeping function

**ello supports your directional stability. More security also one-handed.**

With the electric drive of ello you can adjust how much ello supports you when steering or moving straight ahead. With the lane keeping function you can cope with uneven surfaces and steep kerbs. This allows you to easily steer ello with one hand. ello supports you when moving straight ahead and with that helps to compensate an unsteady gait. You regain security when walking.

### Automatic braking function

**ello avoids falls – event without drive activation.**

You can push ello also without electric drive – you can use ello as a conventional rollator. Also without electric drive, ello can avoid falls. ello registers the speed and compares it with the adjusted speed (+/- button, blue lights). ello recognizes when you are falling and activates the brake. You can moderate falls or avoid them completely. In any case, ello does not roll away even if you park ello on a gradient.







# Your contact to ello:

## We are happy to get in touch with you

Become an ello partner and benefit from a well-engineered product, which will inspire your customers. As an ello partner, we guarantee you sales support as well as attractive commercial conditions. Feel free to write us and make an appointment. Our sales team is happy to show you ello without any obligations.

### eMovements GmbH

Schwabstr. 33  
70197 Stuttgart  
Germany  
T: +49 711 400 567 20  
kontakt@ello-rollator.de  
www.ello-rollator.com

#### Germany

#### Rehaforum Medical GmbH

Daimlerstr. 12a  
25337 Elmshorn  
Deutschland / Germany  
T: +49 4121 47 33 35  
F: +49 4121 47 33 23  
info@rehaforum.de  
www.rehaforum.com

#### Belgium France

#### Mobio

Hillarestraat 20  
9160 Lokeren  
Belgium  
T: + 32 9 328 77 23  
F: + 32 9 296 11 05  
info@mobio.be  
www.mobio.be

#### Ludwig Bertram GmbH

Im Torfstich 7  
30916 Isernhagen  
T: +49 5136 9759-0  
F: +49 5136 9759-555  
info@russka.de  
www.russka.de

#### UAE Russia Ukraine USA China Slovenia

#### Dixon

#### Vertrieb medizinischer Geräte GmbH

Couvenstr. 6  
40211 Düsseldorf  
Deutschland / Germany  
T: +49 211 388 388 68  
F: +49 211 388 386 97  
info@dixon.de  
www.dixon.de

#### Austria

#### Emovatec e.U.

Lachnerstr. 39  
4113 St. Martin  
Austria  
T: +43 720 500 334  
verkauf@ello-rollator.at  
www.ello-rollator.at  
www.emovatec.at

#### The Netherlands

#### Rehasense

Markeweg 81  
8398 GM Blesdijke  
The Netherlands  
T: +31 561 450599  
www.rehasense.com

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[www.ello-rollator.com](http://www.ello-rollator.com)