



User Manual
Excel Yoga

Before using your new Excel Yoga scooter, you must read and fully understand this user manual.

General information

You have just purchased a Van Os Medical B.V. scooter and we want to thank you for the confidence in our EXCEL® products. The scooter is a quality product. The main purpose of the scooter is to remedy your mobility problems.

The policy of Van Os Medical B.V. is to continually improve the quality and reliability of our products. We reserve the right, therefore, without prior notification, to alter this guide. It is important that your guide for use is read carefully. The manual contains important information about the safe use and maintenance of your scooter. We recommend that you keep this guide, it's also your proof of warranty and you will find it useful for referring to at a later date. The safety instructions in this guide are general guidelines that must be seen as broad guidelines. It is possible that you are developing your own methods for daily movements. However, we would advise you to rely on an expert to assist with the development of safe and effective techniques, with regard to your daily activities and your physical capabilities.

Your new scooter requires frequent maintenance, much of which you can do yourself. We want you to take your scooter once a year to be inspected by a professional. A maintenance schedule and a table with problem analyses can be found later in this manual. Also, this manual includes a detailed description of all the settings of your scooter. Many of these options require, as well as repairs to your scooter, the knowledge of an expert. We therefore advise you to let an expert carry this out.

Caution!

In this guide you will find informative comments, recommendations and warnings. These are clearly identified by the below symbols and the appearance of the text.

 **Tip:** Information.

 **Warning:** To avoid personal injury, warnings must be followed.

Dealer information

Fill out the information on your authorised dealer below:

Company:

Address:

Telephone number:

Fax number:

Email address:

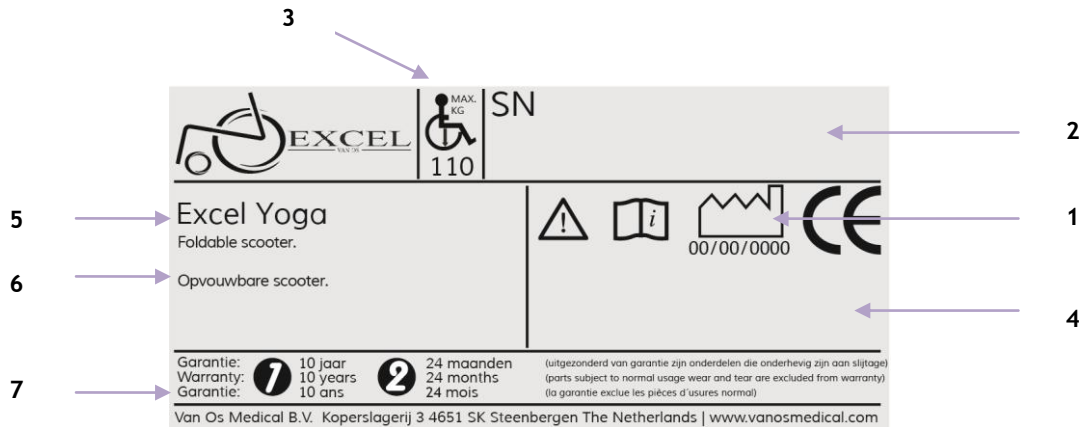
Website:

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1. Identification

Your Excel Yoga scooter is equipped with a unique identification number. You can find this number on the frame of your scooter. Below is an example of the frame label on which you can find the identification number. Furthermore you will find the explanation of the various data stored on the frame label listed below.



- 1. Production date** The date on which your scooter was manufactured.
- 2. Serial number** Every scooter has its own unique identification number. You must have this number when making technical requests or if the warranty parts are required.
- 3. Maximum user weight** The largest occupant weight allowed for the protection of both the scooter and the user.
- 4. Type number** This number indicates which model of scooter you have, again this is always required when making technical requests.
- 5. Model name** The model name of the scooter.
- 6. Description** Here, the intended use of the scooter is shown.
- 7. Warranty** Here, the guarantee period of your scooter is shown. Chapter 9 of this user manual describes your warranty conditions.

2. General explanation concerning your scooter

Your Excel Yoga scooter is equipped with a number of elements and parts. You should know these before continue reading this manual. Designs and specifications may change without prior notice.

2.1. Components of your scooter



1	Control	7	Foot platform
2	Tiller	8	Rear wheel
3	Tiller adjustment lever	9	Frame of your scooter
4	Front cover	10	Seat
5	Removable battery pack	11	Armrest
6	Front wheel	12	Backrest

2.2. General explanation of the functions and possibilities of your scooter

The scooter is equipped with an electric motor with a transaxle to the rear wheels. In addition, the Excel Yoga is also provided with an automatic braking device. This ensures that when you release the lever forward or backward loose, the scooter automatically slows down. Also, the scooter is equipped with electronics control software that determines the acceleration. Moreover, the scooter is equipped with different adjustment options. This allows you to fully adjust the medical device to your needs and use. It is very important that you completely read through the manual before using the product in use.

3. Safety regulations

Van Os Medical B.V. specifically disclaims responsibility for any body injury or property damage which may occur during any use which does not comply with laws or ordinances. If used correctly, the Excel Yoga scooter is an utmost safe and stable product, if the instructions for use as described in this manual are followed. However, it is possible when the Excel scooter is not used correctly, dangerous situations may occur.

3.1. General safety regulations

For safe and sustainable use of your Excel Yoga, it is important to check it regularly. When a part of your Excel Yoga scooter is not functioning properly, it is possible that there is a dangerous situation.

ⓘ Warning:

It is important check your scooter regularly. This keeps your scooter in good condition and will avoid unsafe situations.

3.2. Warnings for safe use

- Failure to follow all the instructions in this manual may result in damage to the scooter or serious injury;
- Always operate your scooter with thought, care and safety;
- Do not drive into curbs;
- It is important that the maximum user weight is not exceeded. The maximum user weight is the weight of the person including luggage, etc.;
- Unauthorised modification and or use of parts not supplied by Excel will invalidate the warranty of this scooter and may lead to injury to the user and or damage to the scooter;
- Before riding, you should make sure the scooter is in the drive position;
- Do not let children play with or on your scooter and do not take any children on your lap;
- To avoid tipping hazard, do not make turns at full speed;
- All wheels must be in contact with the floor at all times during use. This will ensure the scooter is properly balanced;
- Do not use your scooter when it is damaged or has any malfunction;
- Do not attempt to use your scooter on an escalator. Always use an elevator;
- Do not carry passengers under any circumstances;
- Make sure the scooter is turned off if you are going to mount or disassembly the scooter;
- Do not drive backwards with your scooter on an incline or across an uneven surface;
- Always make sure the seat is locked forward before operating your scooter;
- Always come to a full stop before changing direction from forward to reverse or from reverse to forward;
- Do not use your scooter if you are under the influence of alcohol, drugs or medication;
- Do not climb ramps or curbs that exceed your scooters capacity;
- Always approach inclines straight on;
- Always be aware of and careful near mechanical pinch points, especially when assembling and disassembling your scooter;
- Never sit on your scooter when it is being transported;
- If you need to transport the scooter by car, you should always fold the scooter;
- Always keep extra care when driving on soft or uneven surface such as grass and gravel. Lets you run the risk of getting stuck in the ground;
- Always cross streets at intersections and use crosswalks or the most direct route, making sure that your path is clear and that you are visible to motor traffic;
- Never drive backwards off a curb;

- Never drive a curb or step up or down if it is higher than one third of the diameter of the wheel is in cm;
- Never drive your scooter over a gap;
- Do not try to climb a hill greater than 6 degrees;
- Do not get on and off your scooter on a hill;
- Do not load your scooter with heavy items driving down a hill;
- Do not drive your scooter in icy or salted conditions;
- Never drive on the road unless you have to cross the street; You can drive on the sidewalk and bike paths;
- Do not tow a trailer;
- Do not use hand-held communications devices when using your scooter;
- Try to avoid nearby transmitters such as radio or TV stations;
- If unintended movement of brake release occurs, turn off the scooter as soon as it is safe;
- Be aware that adding accessories or components or modifying the scooter, may make it more susceptible for radio wave sources;
- Report all incidents or unintended movement of brake release to your manufacturer;
- Turn off your scooter if there are unintentional motions, unintended or uncontrolled directions of unexpected brake release;
- Keep your arms between the armrests and your feet on the footrest;
- Always check with your doctor to determine if any of the medications you are taking may affect your judgment and/or your ability to operate your scooter. Also check with your physician concerning your physical ability to operate a scooter.

4. Practice before operating

Find an open area such as a park and have an assistant to help you practice until you have confidence operating this vehicle. Make sure that the unit is off before getting in or out of the it. Set the speed control knob according to your driving ability.

We recommend that you keep the speed at the slowest position (fully counter-clockwise) until you are familiar with the driving characteristics of this vehicle.

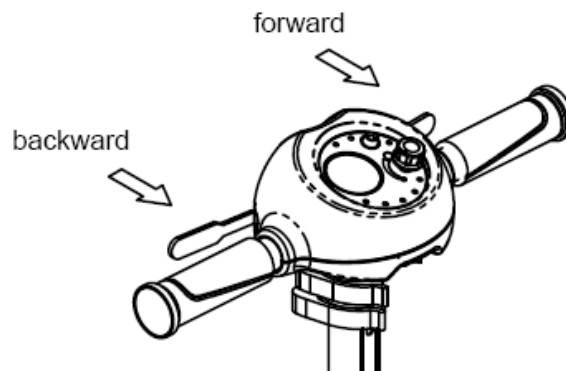
ⓘ Warning: Failure to follow these instructions may result in damage to the Excel Yoga scooter or serious injury to the driver.

4.1. Getting in and out the Excel Yoga

Your scooter is designed to make getting in and out of the scooter as easy as possible. Make sure the scooter is on a level surface and the key switch is turned OFF. If necessary, raise the armrest to give you maximum space to transfer in or out of the seat. Once transfer is complete, return the armrest before operating the scooter.

ⓘ Warning: Never operate your scooter without your feet being placed on the scooter platform. Driving your scooter without your feet ! on the platform could cause serious bodily injury.

4.2. Stop, forward and reverse operation practice



- Push the lever backward on the **right** side to move **forward**
- Push the lever backward on the **left** side to move **backward**

4.3. Getting familiar with the Excel Yoga scooter



First, practice moving forward. Be sure to set the speed to the lowest setting!



After becoming familiar with moving forward, practice making a S turn.



Once you are familiar with the S turn, practice moving in reverse. Note that any speed control setting, the vehicle moves more slowly in reverse than forward!

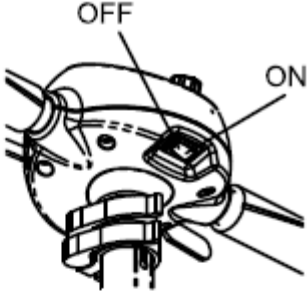
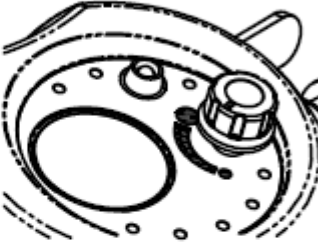
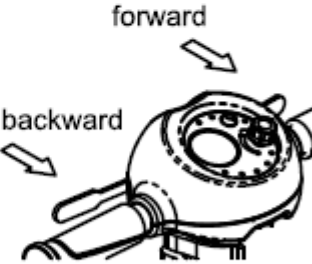

4.4. Cleaning and disinfection

- Use a damp cloth and mild, non-abrasive cleanser to clean the plastic and metal parts of your scooter. Avoid using products that may scratch the surface of your scooter.
- If necessary, clean your product with an approved disinfectant. Make sure the disinfectant is safe for use on your product before application.
- Follow all safety instructions for the proper use of the disinfectant and cleaning agent before applying it to your product. Failure to comply may result in skin irritation or premature deterioration of upholstery and/or scooter finishes.

5. Controls

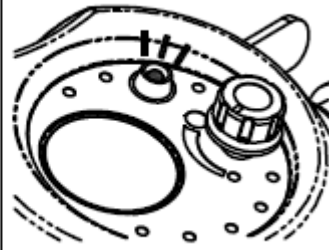
ⓘ Warning: Only drive within your control limitations. Loss of control of the Excel Yoga scooter could result in serious injury to yourself or others. If your speed becomes difficult to control, release the speed engager lever and your scooter will come to a complete stop. Only use the on/off switch to stop the Excel Yoga in an emergency.

5.1. Controls of the Excel Yoga scooter

<p>Power Switch: Switch ON to power up your scooter. Switch OFF to power down your scooter.</p>	
<p>Speed Control: Speed Dial regulates the speed of the scooter. Start at the slowest speed until you feel confident controlling your scooter safely. Turn the speed dial counter-clockwise to decrease the speed. Turn the speed dial clockwise to increase the speed.</p>	
<p>Forward / Reverse: To move forward push the lever on the right side. To move backwards push the lever on the left side.</p>	
<p>Battery Gauge: Indicates the charge level of the batteries. If the needle goes into the red area, the batteries need to be charged as soon as possible. If the needle is all the way to the right side of the green area, the batteries are fully charge. As the needle moves to the red area it indicates the depletion level.</p>	

Power eye:

When the scooter is on, and all conditions are normal, the Power Eye will be on. When there is some special situation that needs attention, the light will flash. See the reference chart below for the meanings of the different flashing patterns.

**5.2. Brakes and throttle control lever**

Whenever the speed engager lever is moved out of the neutral position, the electromagnetic brake will automatically release and the Excel Yoga will move. When the speed engager lever is released, it will turn to the neutral position and your scooter will decelerate and come to a complete stop. The parking brake will then engage preventing further movement of your scooter. Your unit is equipped with a programmable controller that has a high peddle disable safety feature. This will prevent unexpected acceleration of your Excel Yoga scooter, if the speed engage lever is activated the same time you turn the key 'ON'. To reset the controller, release the speed engage lever and turn then key 'OFF' for a couple of seconds and then turn it back 'ON'.

5.3. Technical specifications

Definition	Specification
Model no.	S542
Overall length	99 cm (38,6")
Overall width	53 cm (20.9")
Maximum rider weight	110 kg (250 lbs)
Batteries	24V / 11,4 Ah
Battery pack weight	1,7 kg (3.7 lbs)
Ground clearance	14 cm (5,5")
Total weight (without batteries)	24 kg (52,8 lbs)
Maximum range (up to)	18 km (11,25 miles)
Maximum speed	6 km/h (4 mph)
Front wheel size	6" PU
Rear wheel size	7" PU

6. Seat

6.1. Backrest angle

Backrest folds forward for ease of folding / storage.



6.2. Armrest angle

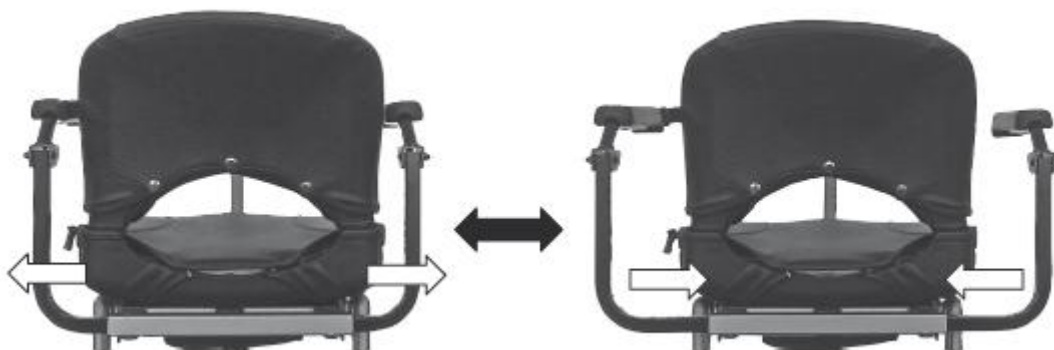
Flip the armrest up to expose the adjustable bolt .

Turn the bolt in to lower the angle of the armrest to your desire angle.



6.3. Armrest width

Locate the width socket set screw (follow the armrest support down to the base of the seat). Then loosen the socket set screw by turning counter-clockwise. Pull the armrest in or out to reach your desired position. Tighten the width socket set screw.



7. Tiller angle adjustment

The tiller angle adjustment lever allows you to position the tiller closer or further away for better access to the controls. Sit on the seat before adjust the tiller angle. Hold top of the tiller with one hand and pull down the lever with the other hand. Adjust the angle of the tiller to a comfortable position. Release the lever, test the tiller is set in position by attempting to push back and fore to push backward and forward.



ⓘ Warning: Do not stand in front of the tiller while pulling the lever on the top of the gas spring. The tiller might hit your body while springing back.

8. Fold and unfold the Excel Yoga

This scooter can be folded for transportation or storage. Follow the procedures below to fold and unfold the Excel Yoga and transport it with care.

ⓘ Warning: Avoid pinch points while folding and unfolding the Excel Yoga.

8.1. Folding procedures

Step 1: Release the Quick Clamps on the Tiller and retract the Tiller to its lowest position.



Step 2: Pull the lever on the top of the Gas Spring which is behind the Tiller, and let the Tiller spring back to its forefront position.



Step 3: Fold the Backrest onto the Seat and fix it with the Backrest Clip on the side of the Seat.



Step 4: Pull back the Seat Lock on the side of the Seat to unlock the Seat. Flip the Seat up and start to fold the scooter.



Step 5: Keep on pushing down the Seat to retract the Front Wheel and Tiller until the scooter length is almost half of its original length.



Step 6: Hold the handle under the Seat and push the footrest with one foot to let the front portion of the scooter to move toward the Seat until the rear portion is locked with the front portion.



Step 7: Release the Quick Clamps on the Tiller and pull the Tiller up to an adequate position. You can either pull or push the scooter everywhere you like.



8.2. Unfolding procedures

Step 1: Release the Quick Clamps on the Tiller and retract the Tiller to its lowest position.



Step 2: Press down the Release Handle above the Rear Wheel to unlock the folded frame.



Step 3: Hold the Control Panel or Handle to push the Tiller and Front Wheel to move forward until it is hard to move it any further.



ⓘ Warning: Avoid pinch points while pushing down the Excel Yoga.

Step 4: When the Central Handle is near to horizontal position, hold the Seat with two hands and keep on rotating it back to its normal position. A 'click' sound will be heard when the Seat is locked into its normal riding position.



Step 5: Release the Backrest Clip and unfold the Backrest.



Step 6: Release the Quick Clamps on the Tiller and extend the Tiller to an adequate operating position.



Step 7: Pull the handle on the top of the gas spring which is behind the Tiller with one hand. Hold and move the Tiller with the other hand to adjust the Tiller to a best operating angle.



9. The Battery

Your scooter is equipped with a removable battery pack, which contains one maintenance free 24v Lithium battery. This battery require no maintenance other than ensuring that it is properly charged. If other battery is used, check with your battery supplier for proper battery care and maintenance instructions.

9.1 Charging the Battery

Because your battery may only has a partial charge when you first receive your scooter, you may not experience full riding time until you have fully charged it. Your scooter is equipped with an battery charger. Charging your battery as specified below will ensure maximum life, power, and range.

Charging Battery

1. Turn off the power on the scooter.
2. Slide away the cover of the battery receiver socket and insert the battery charger socket.
3. Do not switch on the battery charger until all the plugs are in position.
4. Battery charger when starting its charge will show an amber light. The charge is complete when the charging light turns to green.



Battery charging point

9.2. Install and remove battery pack

Step 1: While removing the Battery Pack, slide and unlock the Battery Lock with your thumb.



Step 2: Pull and lift up the Battery Pack from the scooter.



Step 3: Remove the Battery Pack fully away from the Battery Recess on the scooter.



ⓘ Warning: Do not place metal objects over battery terminals.

Step 4: While installing the Battery Pack, align the electrodes on the rear portion of the Battery Pack with the electrodes in the Battery Recess on the scooter.



Step 5: Release the Battery Pack to let it fall into the Battery Recess on the scooter. A 'click' sound will be heard when the Battery Pack is locked into position.



Step 6: Switch on the scooter to check if the battery is installed correctly.



10. Failure / clear errors

Your Excel Yoga scooter is inspected and ready for use, so you can use it immediately. The following fault diagnosis system indicates through a fault code what is going on.

Number of lights	Meaning
1	Battery needs recharging
2	Battery voltage is too low
3	Battery voltage is too high
4	Current limit time out
5	Brake fault
6	Not in neutral at power up
7	Speed pot error
8	Motor volts error
9	Other internal error
10	Controller over heat (C40 only)

It is important that you consult in case of error with your dealer. Except for 1 and 2 flashes. Then you need to recharge the batteries .On For all other errors, you need to ask your dealer what to do.

ⓘ Warning: Never repair your scooter yourself. When you do this, the warranty is void.

11. Warranty

11.1. Warranty conditions

Your Excel Yoga scooter has factory warranty. This warranty is only granted to you as the consumer. It is not intended to be used commercially (like hiring or institutional use). The warranty is limited to defects to materials and possible hidden shortages. Excel offers a warranty period of 2 years on the complete product except the batteries: 12 months.

Tip: We recommend the use of only Excel replacement parts. If you do not use original parts, the warranty will be void.

11.2. Warranty application

The warranty period is valid from the date of purchase. If there is during this period a defect on the scooter it will be repaired or replaced. However you do need a completed warranty form, a copy of the invoice with the date of purchase to Van Os Medical to hand. The warranty is based on 'carry in'. This means that the user of the Excel Yoga scooter needs to deliver the product at Van Os Medical himself, when something needs to be repaired or replaced. The warranty can be claimed at the dealership, but in addition it is possible at all times to execute the repair by Van Os Medical.

Tip: Warranty is not transferrable. For more information and the location of service agents please visit our website: www.vanosmedical.com

This warranty does not include any labour charges incurred by replacements. Under normal circumstances no responsibility is accepted when the scooter needs replacement or repairs as a direct result from:

- Not maintaining the scooter and parts according to the recommendations of the manufacturer, or not using the specific original parts;
- Damaging the scooter or parts by inattentive use, accident or wrong use;
- Adjusting the scooter or parts, different from the specifications of the manufacturer, or reparations done before the service agent is warned;
- If the product is not equipped with an original factory frame number and identification label as described in the manual, see chapter 1.

The scooter that is described and showed in this manual can differ from your own model in details. However, all instructions are relevant, independent of slightly different details. We reserve the right to change the product in this manual without further notice. All drawings, measures and capacities showed in this manual, are approximations and may be slightly different to your scooter specifications.

Warning: Excel cannot be liable for any consequent or individual damage whatsoever. While this manual is created with care it is not exclusive. The warranty is only valid during the indicated period. If adjustments are made to the Excel Yoga scooter, which have structural impact on the product, the warranty will expire completely. You can visit www.vanosmedical.com for an enlarged warranty and supply conditions and an address list of service agents.

CERTIFICATE



Product identification

Product: *Electrically powered wheelchairs, scootmobiels and their chargers*
Brand: *Excel*
Model/type: *Yoga*
Version:

Manufacturer:

Name *Van Os Medical B.V.*
Address *Koperslagerij 3*
4651 SK Steenberg
Country *The Netherlands*

EU Representative:

Name *W. van Os*
Address *Koperslagerij 3*
4651 SK Steenberg
Country *The Netherlands*
Function *Director*

Technical constructed file

Prepared by: Name *J.M.J. Brouwer BBA*
Function: *Research & Development*
Issue date: *01-02-2015*
TCF date: *01-02-2015*
Recertification date:

Means of conformity

The product is in conformity with Directive 93/42/EEC based on the use of a Technical construction file in accordance with Article 9 (Class I products) of the Directive

Signature of EU representative:

Place : Steenberg

Date : 01-02-2015

Number : VOS.TCF.EX.0960



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