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> [VELECO](#) /

> Veleco COSMO Electric Wheelchair User Manual

VELECO COSMO

Veleco COSMO Electric Wheelchair User Manual

Model: COSMO | Brand: VELECO

1. INTRODUCTION

Thank you for choosing the Veleco COSMO Electric Wheelchair. This lightweight, foldable electric wheelchair is designed to provide mobility and independence with ease of use. Featuring a powerful 500-watt motor and intuitive joystick control, the COSMO is built for comfort, safety, and convenience. Please read this manual thoroughly before operating the wheelchair to ensure safe and proper use.



Figure 1.1: The Veleco COSMO Electric Wheelchair, showcasing its compact and modern design.

Key Features:

- **Joystick Control:** Easy control via a user-friendly joystick, flexibly mountable on the left or right armrest.
- **Electromagnetic Brakes:** Reliable electromagnetic brakes ensure safe and quick deceleration.
- **500 Watt Motor:** Two powerful motors, each 250 watts, enable smooth and powerful movement.
- **Reverse Function:** The reverse function increases maneuverability and facilitates backing up the wheelchair.
- **Pelvic Belt:** Additional safety is provided by a mounted pelvic belt, ensuring stability during movement.
- **13 Ah Lithium-Ion Battery:** A large, durable 13 Ah lithium-ion battery provides sufficient range and can be easily recharged at home.
- **Electric Horn:** An electric horn enhances safety and facilitates communication in traffic environments.
- **Practical Side Pockets:** Integrated side pockets allow for convenient storage of personal items while on the go.

- **Speed Controller:** An adjustable speed controller allows the user to individually adjust the travel speed.
- **Charger and Batteries Included:** Fully equipped with a charger and the necessary batteries for problem-free use.

2. SAFETY INFORMATION

Your safety is paramount. Please adhere to all safety guidelines to prevent injury or damage to the wheelchair.

- Always read the entire manual before first use.
- Consult with a healthcare professional to ensure this device is suitable for your specific needs.
- Do not exceed the maximum weight capacity of the wheelchair (refer to specifications).
- Always wear the pelvic safety belt when operating the wheelchair.
- Avoid operating the wheelchair on steep inclines, uneven terrain, or near bodies of water.
- Ensure the battery is fully charged before extended use.
- Do not expose the wheelchair or battery to extreme temperatures or direct sunlight for prolonged periods.
- Keep hands and clothing clear of moving parts, especially wheels and motors.
- Always engage the electromagnetic brakes when stopping or parking.
- Do not attempt to modify the wheelchair. Any modifications may void the warranty and compromise safety.
- Use only the charger provided by Veleco for charging the battery.

3. PRODUCT OVERVIEW

Familiarize yourself with the main components of your Veleco COSMO Electric Wheelchair.



Figure 3.1: Front view, highlighting the footrest and front wheels.



Figure 3.2: Rear view, showing the push handles and rear wheels.



Figure 3.3: Detailed view of the joystick control panel with power, speed, and horn buttons.



Figure 3.4: View of the powerful 250-watt electric motors on each rear wheel.

4. SETUP AND ASSEMBLY

4.1 Unfolding the Wheelchair

The Veledo COSMO is designed for easy folding and unfolding. Follow these steps to prepare your wheelchair for use:

1. Place the folded wheelchair on a flat, stable surface.
2. Grasp the backrest and gently pull upwards until the frame begins to unfold.
3. Push down on the seat frame until it locks securely into place. Ensure all locking mechanisms are engaged.
4. Adjust the footrest to the desired position.



Figure 4.1: Visual guide to the folding and unfolding process of the wheelchair.

4.2 Attaching the Joystick

The joystick can be mounted on either the left or right armrest for user convenience.

1. Locate the mounting bracket on the armrest.
2. Slide the joystick into the bracket until it clicks into place.
3. Connect the joystick cable to the corresponding port on the wheelchair. Ensure a secure connection.

4.3 Battery Installation and Charging

The wheelchair comes with a 13 Ah lithium-ion battery. Ensure it is properly installed and charged before first use.

1. Locate the battery compartment, typically under the seat.
2. Insert the battery into the compartment, ensuring it is seated firmly.
3. Connect the battery cable to the wheelchair's power system.
4. To charge, connect the charger to the charging port on the wheelchair or directly to the battery if removable. Plug the charger into a standard wall outlet.
5. The charger will indicate charging status (e.g., red for charging, green for fully charged).

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- To power on, press the power button on the joystick controller. The indicator lights will illuminate.
- To power off, press and hold the power button until the lights turn off.

5.2 Joystick Control

The joystick provides intuitive control over the wheelchair's movement.

- **Forward:** Gently push the joystick forward. The further you push, the faster the wheelchair will move (up to the set speed limit).
- **Backward:** Gently pull the joystick backward for reverse movement.
- **Turning:** Push the joystick left or right to turn in the desired direction.
- **Stopping:** Release the joystick. The electromagnetic brakes will automatically engage, bringing the wheelchair to a smooth stop.

5.3 Speed Adjustment

Use the speed control buttons on the joystick to adjust the maximum speed.

- Press the '+' button to increase speed.
- Press the '-' button to decrease speed.
- The speed indicator lights on the joystick will show the current speed setting.

5.4 Electric Horn

Press the horn button on the joystick to alert others of your presence.

5.5 Safety Belt

Always fasten the pelvic safety belt before operating the wheelchair to ensure stability and prevent accidental falls.

6. MAINTENANCE AND CARE

6.1 Cleaning

- Wipe down the frame and seat with a damp cloth and mild detergent.
- Do not use abrasive cleaners or solvents.
- Avoid direct water spray on electrical components.

6.2 Battery Care

- Charge the battery regularly, even if the wheelchair is not in frequent use, to prolong its lifespan.
- Store the battery in a cool, dry place.
- Do not fully discharge the battery before recharging.

6.3 Regular Checks

- Periodically check tire pressure (if applicable) and tread wear.
- Inspect all bolts and fasteners for tightness.
- Ensure all electrical connections are secure and free from damage.
- Test the brakes and horn regularly.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, please contact customer support.

Problem	Possible Cause	Solution
Wheelchair does not power on.	Battery is low or not connected; power button not pressed correctly.	Charge the battery; ensure battery is properly installed and connected; press power button firmly.
Wheelchair moves slowly or inconsistently.	Low battery; speed setting too low; motor issue.	Recharge battery; increase speed setting on joystick; contact support if issue persists.

Problem	Possible Cause	Solution
Brakes are not engaging.	Joystick not fully released; electrical fault.	Ensure joystick is in neutral position; contact support immediately.
Unusual noises during operation.	Loose components; motor issue; debris in wheels.	Inspect for loose parts; clear any debris; contact support if noise continues.

8. SPECIFICATIONS

Technical specifications for the Veleco COSMO Electric Wheelchair.

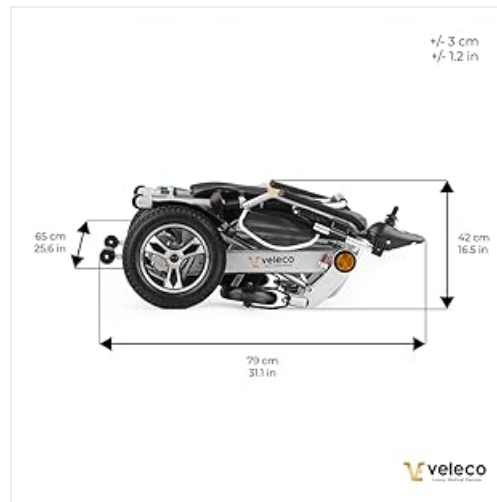


Figure 8.1: Folded dimensions of the Veleco COSMO Electric Wheelchair.

Feature	Detail
Model Name	COSMO
Brand	VELECO
Product Dimensions (L x W x H)	46 x 65 x 57 cm (18.1 x 25.6 x 22.4 inches)
Folded Dimensions (Approx.)	79 x 65 x 42 cm (31.1 x 25.6 x 16.5 inches)
Item Weight	30 Kilograms (66.1 lbs)
Motor Power	2 x 250 Watts (Total 500 Watts)
Battery Type	13 Ah Lithium-Ion
Material	Aluminium, Rubber
Seat Width	43 cm (16.9 inches)
Seat Height	57 cm (22.4 inches)
Seat Depth	46 cm (18.1 inches)
Color	Silver

9. WARRANTY AND SUPPORT

Veleco stands behind the quality of its products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official Veleco website.

If you encounter any issues or have questions regarding your Veleco COSMO Electric Wheelchair, please contact our customer support team. Have your model number (COSMO) and purchase information ready for faster assistance.

Contact Information:

Please refer to your product packaging or the Veleco website for the most current contact details.