

HELIO C2



 **MOTION**
COMPOSITES



Something had to be done. We did it.

Motion Composites believes in empowering wheelchair users. Why? Because clunky and inefficient equipment is unfortunately too common. Which means you're less mobile and less efficient than you could be — and should be.

So we did something about it. We use the world's most advanced technologies to enhance people's mobility and improve their lives.

Case in point — the ultra lightweight Helio C2. It offers unrivaled strength and durability through the use of cutting edge carbon fiber technology. With its superior fatigue resistance, extreme temperature tolerances and exceptional durability, carbon fiber is one of the strongest yet lightest materials on earth. That's why it's the ultimate wheelchair manufacturing material.

With its innovative materials and advanced engineering, the Helio C2 2015 is the lightest, most technologically advanced wheelchair in its category.





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What a folding wheelchair should be.

Look closely. From frame to materials to componentry, every detail of the Helio C2 is optimized to help you go farther. We've ratcheted up performance and brought down weight so you actually expend less energy to propel the Helio C2.

Result? You gain in mobility while reducing the risk of chronic shoulder and joint injuries.

The Helio C2's innovative engineering begins with its symmetrical crossbrace and one-piece side frame. This reduces weight and distributes forces equally throughout the frame for superior energy transfer and propulsion efficiency. And, with a vertical axle plate to shave even more grams and decrease wheel flex, you gain further dividends in energy efficiency.

So whether you're pushing it forward or lifting it into a car trunk, the Helio C2 means more freedom. Like we said, it's what a folding wheelchair should be.





The lightest heavy-duty wheelchair in the world!

350 lbs. (159 kg)
maximum weight capacity
up to 22" (55.9 cm) wide



By using an extra-large carbon fibre weave to reinforce the Helio C2 HD crossbrace, we've significantly beefed up the maximum weight capacity while adding minimal weight to the chair.

The Helio C2 HD can handle up to 350 lbs. (159 kg) with only a 6-oz. (176 g) weight increase over the standard Helio C2. Heavy duty without the HEAVY.

26% lighter than the competition.

The Helio C2's outstanding performance and unrivaled lightness has positively changed how people think about wheelchairs. With a transport weight of only 12 lbs. (5.4 kg), the Helio C2 is at least 9 lbs. (4 kg) lighter than any other wheelchair in its category.

The lowest seat-to-floor height.

The innovative frame design lets you achieve a super low 13 ½" (34.3 cm) seat-to-floor height with a 4" caster on a standard frame. That's the same frame that can go up to 21 ¼" (54cm)

Better design for better mobility.

Even an ultra-lightweight carbon fiber frame can get weighed down without the right components. That's why every single accessory, bolt and bracket of the Helio C2 is designed with weight reduction in mind. From the Flip-Back Convertible Armrests to the forged aluminum axle plate, lightness is a top priority.

Get more mileage out of your energy.

Everybody benefits from an easier to propel wheelchair. The Symmetrical Molded Crossbrace, oval shaped tubes and oversized pivot axles work in concert, while our unique Ultrarigid Folding System maximizes frame rigidity and energy conservation.





New support collar offers reinforced back cane support

New fully molded carbon seat rail with integrated seat slider

New injected plastic crossbrace links are lighter and more durable

Eliminating the need for both hemi and standard frame, the hybrid frame design offers a complete range of seat-to-floor heights

New footrest anchor bracket is inset with an integrated friction plate to protect the carbon fiber frame

Ultrarigid Folding System offers best-in-class propulsion efficiency

Rigid Unibody Frame eliminates joints, reduces movement and maximizes efficiency

Integrated into the frame, the caster housing offers simple and infinite angle adjustments



High-Modulus Carbon T700 — The lightest and most rigid material available, also renowned for its vibration dampening properties.



Rigid Unibody Frame — A unibody frame is much stronger and needs less maintenance than a standard two-part frame. It also reduces weight while maximizing propulsion efficiency.



Symmetrical Molded Crossbrace 3D — Entirely symmetrical carbon fiber crossbrace for reduced torsion and better energy distribution throughout the frame.



Ultrarigid Folding System — High-precision tolerances and oversized pivot axles for best-in-class propulsion efficiency.



Forged Vertical Axleplate + — Offers the industry's most precise rear wheel adjustability. The vertical mounting maximizes rigidity and responsiveness.



Evolve Caster Housing — Embedded inside the frame for rock-solid durability, the Evolve Caster Housing offers easy and precise infinite adjustments.



Flip-back Convertible Armrest — Easy to adjust and made of composite materials for strength and reduced weight, it is the only armrest that converts from flip-back to single post without the use of tools.



Newton Accessories — Parts and accessories designed to be lighter, with improved functionality and awesome style.

Technical Specifications

Structure

Frame	Folding Unibody Frame
Material	T700 High-Modulus Carbon Fiber
Weight	12 lbs. (5.4 kg) (w/o rear wheels & footrest)
Weight capacity	250 lbs. (113 kg) HD Kit: 350 lbs. (159 kg)

Dimensions

Width	14" (35.6 cm) to 20" (50.8 cm) 18" (45.7 cm) to 22" (55.9 cm) (Heavy Duty Kit)
Depth	14" (35.6 cm) to 20" (50.8 cm)
Front seat-to-floor height	13" (33.0 cm) to 21¼" (54.0 cm)
Rear seat-to-floor height	12 ½" (31.8 cm) to 20" (50.8 cm)

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Seat depth
14" to 20"
35.6 cm to 50.8 cm



Seat width
14" to 22"
35.6 to 55.9 cm



Front seat to floor
13" to 21¼"
33.0 cm to 54.0 cm



Rear seat to floor
12 ½" to 20"
31.8 cm to 50.8 cm



Back height
9" to 21"
22.9 cm to 53.3 cm



Footrest angle
60°, 70°, 90°



Back angle
70° to 110°



Wheel camber
0°, 3°, 6°



Center of gravity
3 ¼" range
8.3 cm range



Weight limit
250 lbs. (113 kg)
(HD Kit: 350 lbs.
159 kg)



Overall width
from +7 ½"
from +19.1 cm



Armrest height
8" to 14"
20.3 cm to 35.6 cm



Carbon Finish



Sunkissed Orange



Burgundy



Monster Green



Steel Blue



Charcoal



Ferrari Red



Fushia



Acid Green



Sapphire Blue



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