

HELIO C2



 **MOTION**
COMPOSITES



GO BEYOND!

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 incorporate 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 is one of the lightest, most technologically advanced wheelchair in its category.





HELIO C2

What a folding wheelchair should be.

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

The result? You gain mobility while reducing the risk of chronic shoulder and joint injuries.

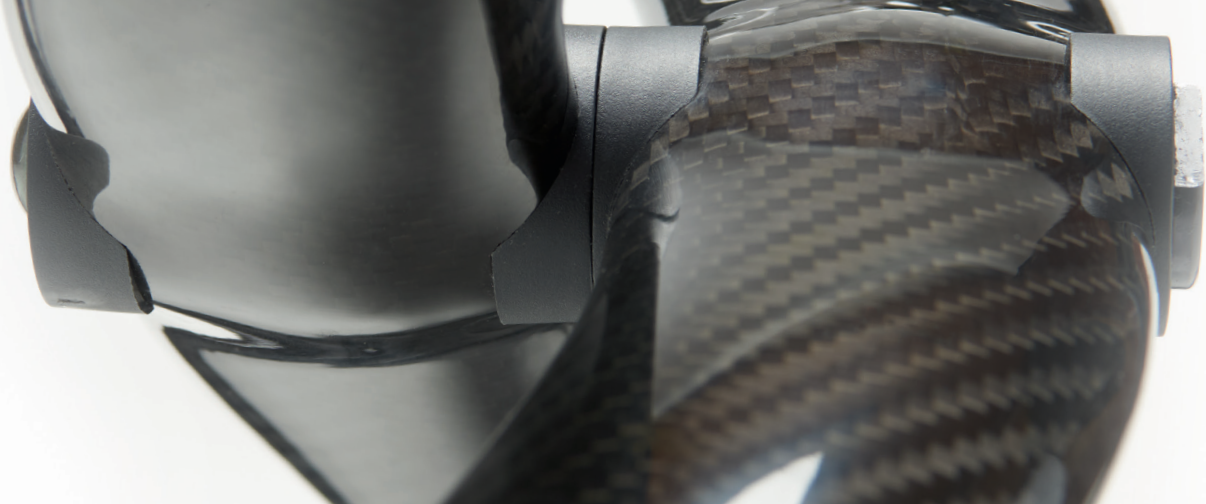
The Helio C2's innovative engineering begins with its symmetrical crossbrace and its rigid unibody side frame. This reduces weight and distributes forces equally throughout the frame for superior energy transfer and propulsion efficiency.

With the vertical axle plates engineered to save grams and increase rear wheel stiffness, you'll be even more energy efficient.

So, whether you're pushing it forward or lifting it into a car, the Helio C2 means more freedom.

It's what a folding wheelchair should be.





Significantly 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 9.5 lb (4.3 kg), the Helio C2 is significantly 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" (33.0 cm) front seat-to-floor height with 3" casters on a standard frame.

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 the unique Ultrarigid Folding System maximizes frame rigidity and energy conservation.





**REINFORCED
BACK CANE
SUPPORT**
for added
stability
and
comfort.

**CARBON
SEAT RAIL**
Fully molded
with integrated
seat slider
for better
seat sling
support.

**HYBRID FRAME
DESIGN**
Eliminates the
need for both
hemi and
standard
frame, while
providing a
complete range
of seat-to-floor
heights.

**RIGID
UNIBODY
FRAME**
eliminates
joints, reduces
movement
and maximizes
efficiency.

**FOOTREST
ANCHOR**
bracket
is inset
with an
integrated
friction
plate to
protect the
carbon fiber
frame.

**INTEGRATED
CASTER
HOUSING**
offers simple
and infinite
angle
adjustments.

**ANTI-
FLUTTER
CASTER**
provides
a smooth,
more
efficient
ride.

**ULTRARIGID
FOLDING
SYSTEM**
offers best-
in-class
propulsion
efficiency.



High-tensile strength Carbon Fiber T700 - One of the lightest and most rigid materials available, also renowned for its vibration dampening properties.



Rigid Unibody Frame - A unibody frame is much stronger and requires 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 - Integrated into 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.



Anti-flutter system - Minimize flutter with a simple twist of a screw.



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

Technical Specifications

Structure

Frame	Folding
Material	High-tensile strength Carbon Fiber T700
Weight Limit	265 lb (120 kg) Kit HD: 350 lb (159 kg)
Transport weight	9.5 lb (4.3 kg) 16" 16, w/o rear wheels, wheel locks, Armrest, Cushion, Anti-tippers, Footrest/Plate. Lightest configuration: 19.3 lb (8.8 kg) (w/ wheel locks and wheels)

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	(w/3" caster) (w/8" caster) 13" (33 cm) to 21 1/2" (54.6 cm)
Rear seat-to-floor height	(w/20" wheel) (w/26" wheel) 12 1/2" (31.8 cm) to 20 1/4" (51.4 cm)

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Seat depth
14" to 20"
35.6 to 50.8 cm



Seat width
14" to 22"
35.6 to 55.9 cm



Front seat to floor
13" to 21 1/2"
33 to 54.6 cm



Rear seat to floor
12 1/2" to 20 1/4"
31.8 to 51.4 cm



Back height
9" to 21"
22.9 to 53.3 cm



Footrest angle
60°, 70°, 80°, 90°



Back angle
85° to 110°



Wheel camber
0°, 3°, 6°



Center of gravity
1" to 4"
2.5 to 10.2 cm



Weight limit
265 lb (120 kg)
(HD Kit: 350 lb 159 kg)



Overall width
Min 20 3/4" (52.7 cm)
Max 33 1/2" (85.1 cm)



Armrest height
8" to 14"
20.3 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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C2 brochure pages