

# HELIO C2 HD



**MOTION**  
COMPOSITES



## GO BEYOND!

Why limit yourself with heavy equipment when you don't have to? At Motion Composites, we have taken the "heavy" out of heavy duty! The ultra lightweight C2 HD has an increased weight capacity of 350 lb (159 kg) but weighs only 6 ounces (176 grams) more than a standard configuration. Size should not dictate function, comfort nor mobility. We believe everyone should have great mobility and be able to live life to the fullest.

**If you have had enough of bulky and inefficient equipment, try the Helio C2 HD!**

The ultra lightweight Helio C2 HD offers unrivaled strength and durability with the use of cutting-edge carbon fiber material. 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 HD is one of the lightest, most technologically advanced wheelchairs in its category.





# HELIO C2 HD

## What a folding wheelchair should be.

Look closely. From frame to materials, every detail of the Helio C2 HD is optimized to help you go farther. We've ratcheted up performance and brought down 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 HD's innovative engineering begins with its symmetrical crossbrace and 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 enhance your energy efficiency even more.

Whether you're pushing it forward or lifting it into a car, the Helio C2 HD means more freedom. It's what a folding wheelchair should be.





**One of the  
lightest heavy-  
duty wheelchairs  
in the world!**

**HD**

**350 lb (159 kg)  
maximum weight capacity  
and up to 22" (55.9 cm) wide**

By using an extra-large carbon fiber weave to reinforce the Helio C2 HD crossbrace, we've significantly increased the maximum weight capacity to 350 lb (159 kg) while only adding 6 oz (176 g) over the standard Helio C2. Heavy-duty without the HEAVY.

## **Significantly lighter than the competition.**

The Helio C2 HD's outstanding performance and unrivaled lightness has positively changed how people think about wheelchairs. With a transport weight of only 10.3 lb (4.7 kg), the Helio C2 HD 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.

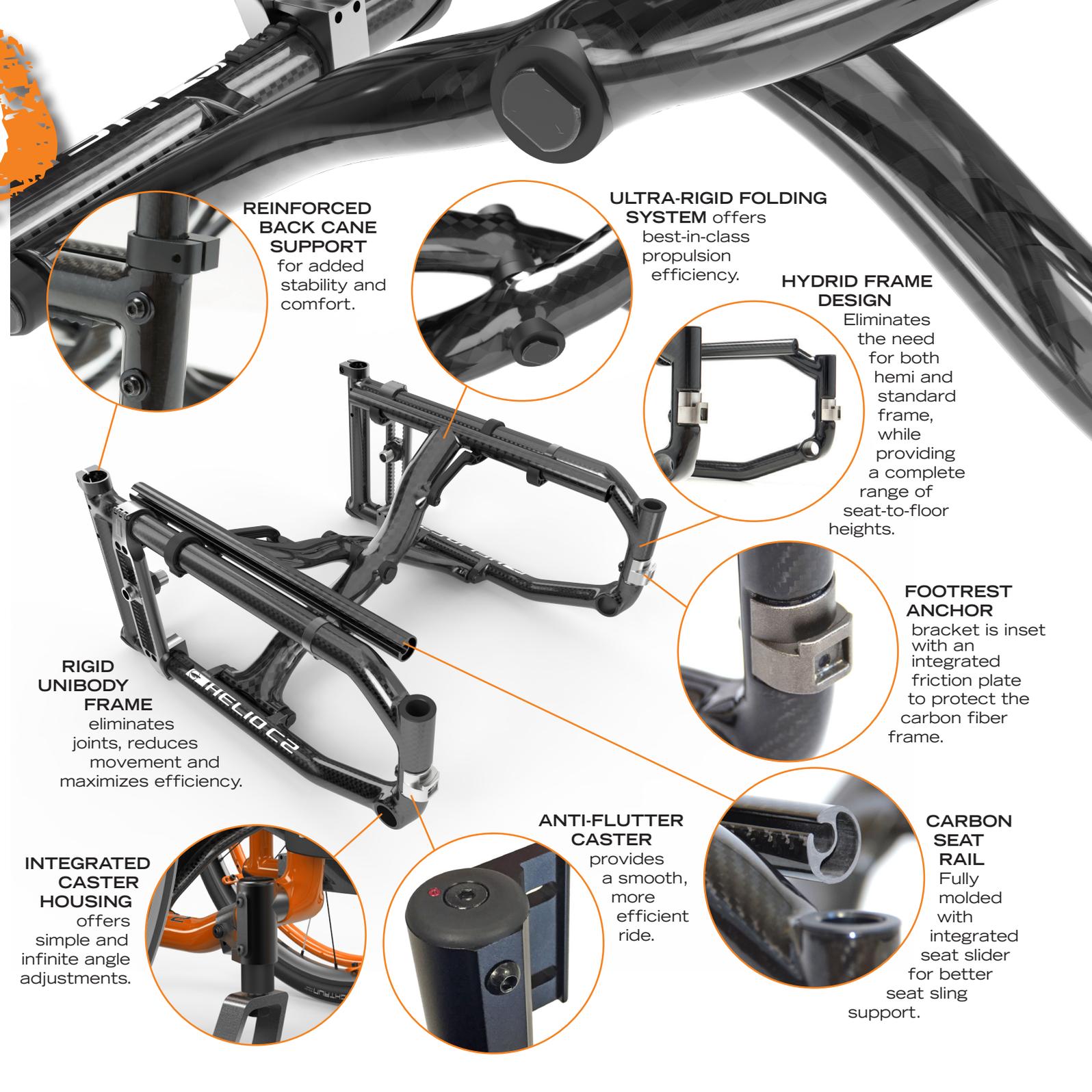
## **Better design for better mobility.**

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 HD 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, the oval shaped tubes and the 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.

**ULTRA-RIGID FOLDING SYSTEM** offers best-in-class propulsion efficiency.

**HYBRID FRAME DESIGN**

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

**FOOTREST ANCHOR**

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

**ANTI-FLUTTER CASTER**

provides a smooth, more efficient ride.

**CARBON SEAT RAIL**

Fully molded with integrated seat slider for better seat sling support.

**RIGID UNIBODY FRAME**

eliminates joints, reduces movement and maximizes efficiency.

**INTEGRATED CASTER HOUSING**

offers simple and infinite angle adjustments.



**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 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.



**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	Kit HD: 350 lb (159 kg)

Transport weight	10.3 lb (4.7 kg) 18"18, w/o rear wheels, wheel locks, Armrests, Cushion, Anti-tippers, Footrest/Plate. Lightest configuration: 20.1 lb (9.1kg) (w/ wheel locks and wheels)
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### Dimensions

Width	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) 13" (33 cm) to 21½" (54.6 cm)	(w/8" caster)
Rear seat-to-floor height	(w/20" wheel) 12 ½" (31.8 cm) to 20¼" (51.4 cm)	(w/26" wheel)

## Motion Composites

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



**Seat width**  
18" to 22"  
35.6 to 55.9 cm



**Front seat to floor**  
13" to 21½"  
33 to 54.6 cm



**Rear seat to floor**  
12½" to 20¼"  
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**  
HD Kit: 350 lb  
159 kg



**Overall width**  
Min 20 ¾" (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 HD brochure pages