



# HELIO A7

 **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 use the world's most advanced technologies to enhance mobility and improve people's lives. One of the industry's most advanced aluminum wheelchairs, the Helio A7 incorporates everything we've learned to date.

Using the revolutionary hydroforming process, which lets us shape malleable metals such as the high-end 7005 T6 aluminum alloy, we've succeeded in reproducing our signature Symmetrical Crossbrace 3D and our Ultrarigid Folding System on the Helio A7. For users, this means nimbler handling and unmatched energy conservation for easier everyday activities.

The Helio A7 is one of the lightest, most efficient folding aluminum chairs in the industry.





**HELIO** *A7*



## One of the lightest wheelchairs in its class.

When it comes to lightweight performance, Motion Composites is fantastic. Take the Helio A7, for example. The cutting-edge design, paired with the outstanding properties of 7000 series aluminum, have produced a standard configuration Helio A7 that weighs up to 5 lb (2.2 kg) less than other wheelchairs in its category.



## High-end aluminum manufacturing yields high-end performance.

By coupling the latest hydroforming technologies with an ultra high-performance aluminum alloy, we created one of the lightest folding aluminum wheelchairs ever.

## Get more mileage out of your energy.

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



## 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.

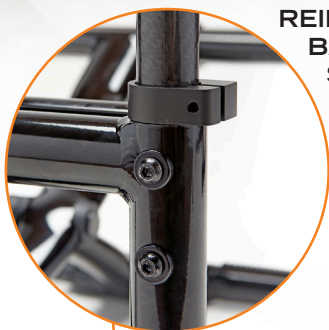
Even an ultra-lightweight aluminium frame can get weighed down without the right components. That's why every single accessory, bolt and bracket of the Helio A7 is designed with weight reduction in mind. From the Flip-Back Convertible Armrests to the forged aluminum axle plate, lightness is a top priority.

## Truly innovative armrest.

The composite lightweight armrest quickly converts from flip-back to single post for easier configuration. Height adjustments are just a flick away thanks to a simple trigger system. Experience safer transfers with the enhanced rubber grip finish.







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



**ALUMINIUM  
SEAT RAIL**  
With integrated  
seat slider for  
better seat sling  
support.



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



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



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

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



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





**Ultralight Aluminum 7005 T6** - An aluminum alloy renowned for its high strength-to-weight ratio.



**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 Hydroformed Crossbrace 3D** - Entirely symmetrical aluminum 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	7005 aluminum
Weight limit	265 lb (120 kg) Kit HD: 350 lb (159 kg)
Transport weight	13.6 lb (6.2 kg) 16"16, w/o rear wheels, wheel locks, Armrests, Cushion, Anti-tippers, Footrest/Plate. Lightest configuration: 23.5 lb (10.6 kg) (w/ wheel locks and wheels)

### Dimensions

Width	14" (35.6 cm) to 22" (55.9 cm)
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"  
33.0 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 3.75"  
2.5 to 9.5 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

Standard

Basalt  
Black



Sunkissed  
Orange



Burgundy



Monster  
Green



Steel  
Blue



Charcoal



Ferrari  
Red



Fushia



Acid  
Green



Sapphire  
Blue



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A7 brochures pages