

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 deploy the world's most advanced technologies to enhance people's mobility and improve their lives — as we've done with the Helio A7. One of the industry's most advanced aluminum wheelchair, the Helio A7 is based on what we learned creating the Helio C2 carbon fiber chair.

Using the revolutionary hydroforming process, which lets us shape malleable metals such as our 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. Our engineers' cutting edge design, paired with the outstanding properties of 7000 series aluminum, have produced a standard configuration Helio A7 that weighs up to 5 lbs. (2.2 kg) less than other wheelchair in its category. That's top of the class.

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 wheelchair...ever.

Get more mileage out of your energy..

Everybody benefits from an easier to propel wheelchair. Our Symmetrical Hydroformed Crossbrace, oval shaped tubes and 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 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)

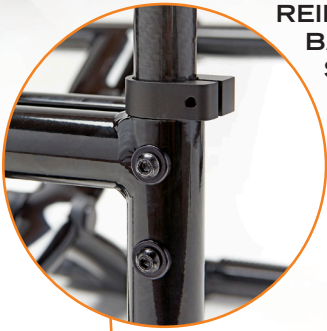
Better design for better mobility

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.

Our composites 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. On top of this, experience safer transfers with our enhanced rubber grip finish.





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



**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, while
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 needs 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 most precise rear wheel adjustability in the industry. 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. 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 awesome style.

Technical Specifications

Structure

| | |
|------------------|---|
| Frame | Folding with hydroformed aluminum crossbrace |
| Material | 7000 series aluminum alloy |
| Transport weight | 13.7 lbs. (6,2 kg) (16*16, w/o rear wheels & footrest) |
| Weight capacity | 265 lbs. (120 kg) HD Kit: 350 lbs. (159 kg) |

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/4" caster) 13 ½" (34.3 cm) | (w/8" caster) 21 ½" (54.6 cm) |
| Rear seat-to-floor height | (w/20" wheel) 12 ½" (31.8 cm) | (w/26" wheel) 21 ¼" (54 cm) |

Motion Composites

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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 21 ¼"
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°, 80°, 90°



Back angle
70° to 110°



Wheel camber
0°, 3°, 6°



Center of gravity
3 ¼" range
8.3 cm range



Weight limit
265 lbs. (120 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

Standard



Basalt
Black



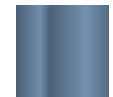
Sunkissed
Orange



Burgundy



Monster
Green



Steel
Blue



Charcoal



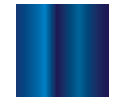
Ferrari
Red



Fushia



Acid
Green



Sapphire
Blue



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COMPOSITES**

A7 brochures pages