

Hypershell X Pro Exoskeleton



Model: HSX-PRO

Manufacturer: HYPERSHELL

EAN: 6977518000140

Product Code: 660465

R20,926

Hypershell X Pro Exoskeleton

The Hypershell X Pro is an advanced motion-assist exoskeleton that combines AI MotionEngine technology, refined ergonomics, and extreme durability, offering uncompromising support during the most demanding activities. The device analyzes the user's movement up to 1,000 times per second and reacts with a latency of just 2 milliseconds, ensuring smooth and natural assistance even during dynamic running. Thanks to its powerful peak output of 800 W, the system actively relieves the lower body, reducing physical effort by 30% and enabling movement at an assisted speed of up to 20 km/h. A foldable design weighing 2 kg, advanced AeroFlex SoftSuit padding, a range of up to 17.5 km, and full reliability in temperatures as low as -20°C make the Hypershell X Pro a professional tool designed to push the limits of endurance on any terrain.

AI MotionEngine - precise real-time motion analysis

AI MotionEngine technology is responsible for the exoskeleton's intelligent operation and is its most important component. The system uses a set of advanced sensors, including inertial measurement

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units (IMUs), gyroscopes, and barometers, to continuously analyze the user's movement. With a data processing rate of 1,000 analyses per second, the device is able to react instantly to changes in pace, direction, and terrain incline. With a latency of just 2 milliseconds, the support remains natural and seamlessly synchronizes with the body's biomechanics even during dynamic running or traversing difficult terrain, ensuring precise assistance regardless of the intensity of the effort.

High performance and lower-body relief

The exoskeleton actively supports the lower body, assisting both in lifting the legs and in dynamically propelling them forward. In practice, this translates to a dramatic reduction in fatigue while walking and running, especially in demanding terrain. Utilizing a powerful peak power of 800 W, the system is able to relieve the user, reducing total physical effort by up to 30%, which is crucial during long-distance expeditions or when moving with heavy gear. Additionally, the Hypershell X Pro generates extra propulsion, providing assistance at speeds up to 20 km/h, which makes it easier to tackle steep ascents and move dynamically at a pace unattainable with standard solutions.

Ergonomic design and full freedom of movement

The Hypershell X Pro was designed to not restrict the body's natural biomechanics even during the most intense exertion. The device offers up to 300 degrees of rotational freedom, allowing the user to freely perform dynamic movements such as running, cycling, turning, or climbing. The durable construction, based on aluminum, stainless steel, and carbon fiber-reinforced polymer, ensures exceptional durability and rigidity while maintaining a low weight of just 2 kg (without the battery). This means the exoskeleton does not add extra weight, and its unique, foldable design allows its length to be reduced to approximately 43 centimeters, making it much easier to transport in a standard hiking backpack.

AeroFlex SoftSuit - comfort even during hours of use

Comfort is ensured by the advanced AeroFlex SoftSuit system, which consists of ten layers with a total thickness of 4 millimeters. The outer layer of the carrying system is made of lightweight diamond-weave nylon, ensuring exceptional durability and resistance to damage. The material is designed to provide both adequate ventilation and moisture resistance, maintaining comfort even during intense physical activity. The padding conforms to the user's body, reducing pressure points

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and minimizing the risk of chafing. As a result, the exoskeleton can be worn for hours without discomfort, regardless of the thickness of the clothing worn.

Durability and reliability in extreme conditions

The Hypershell X Pro exoskeleton is designed to operate in the most demanding environments, making it a reliable tool for expeditions and professional fieldwork. The housing meets the IP54 standard, ensuring effective protection against dust, mud, and splashes, allowing for unrestricted use of the device in harsh weather conditions. The device maintains full functionality in an extreme temperature range from -20°C to 60°C, enabling its use in high-altitude conditions, during freezing winters, and in the summer heat. Its robust construction, combined with electronics protection, ensures high durability and resistance to heavy-duty field use, where the device is exposed to accidental impacts or changing weather conditions.

Intelligent operating modes tailored to the situation

The Hypershell X Pro automatically adapts its operation to environmental conditions, but the user can also select specific operating modes. Transparent Mode allows for free movement without motor assistance, which works well on flat terrain or during rest periods. Eco Mode provides gentle assistance while reducing energy consumption, while Fitness Mode introduces controlled resistance, supporting active leg muscle training. A unique feature of the Pro model is Hyper Mode, which unleashes the device's full power (800 W), offering maximum support during the most demanding moments. Additionally, the device supports ten smart modes that automatically activate depending on the situation: Walking, Speed Walking, Running, Cycling, Mountain, Gravel, Uphill , Downhill, Up Stairs, and Down Stairs. This allows the exoskeleton to respond precisely to every change in terrain and activity type, optimizing support in real time.

Power that keeps up with your pace

The 5000 mAh (72 Wh) battery allows you to cover a distance of up to 17.5 kilometers on a single charge. These specs ensure the device performs flawlessly during the most demanding activities. Support for the 65W USB-C Power Delivery standard allows for rapid recharging—it takes about 35 minutes to charge the battery to 50%, and a full charge (0-100%) takes about 88 minutes. The system was designed with cell safety in mind, which is why the optimal charging temperature ranges

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from 0°C to 40°C. The set includes two easily interchangeable batteries, providing a total range of up to 35 kilometers and enabling uninterrupted operation even in extremely low temperatures.

Full control and data analysis with the Hypershell+ app

The dedicated Hypershell+ app is compatible with iOS, Android, and watchOS. Thanks to Apple Watch support, users can access key statistics and assist settings directly from their wrist—without having to reach for their phone. The software allows for real-time monitoring of movement parameters, analysis of calories burned, and precise adjustment of the assistance level to individual preferences. The app also allows for wireless device software updates (OTA), ensuring constant access to the latest algorithms and performance optimizations. This integration with the mobile ecosystem makes the exoskeleton a smart extension of your body.

Versatile use—from mountain trails to athletic challenges

The Hypershell X Pro is designed for the most demanding scenarios—from high-altitude expeditions to intense sports activities. The device makes it easier to tackle steep ascents during trekking, providing support for mountaineers, nature photographers carrying heavy gear, or surveyors working in challenging terrain. With assistance up to 20 km/h and dedicated operating modes, the Pro model also excels during trail running and cycling, significantly reducing muscle fatigue while maintaining high movement dynamics. The exoskeleton is also a reliable aid in professional work requiring prolonged movement with a load in harsh conditions. Thanks to its resistance to extreme cold and powerful output (800 W), the Hypershell X Pro becomes a versatile tool for professionals and outdoor enthusiasts who want to push the limits of their endurance regardless of the season.

Included:

- Exoskeleton
- Battery x2
- USB-C cable
- User manual

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Manufacturer	Hypershell
Model	X Pro
Color	Matte silver-gray
Dimensions when folded	430 × 260 × 125 mm
Weight	2 kg (excluding battery)
Construction materials	Aluminum alloy, stainless steel, carbon fiber-reinforced polymer
Carrying system material	Ultra-lightweight diamond-weave nylon
Maximum power	800 W
Physical effort reduction	30%
Maximum assist speed (while running)	20 km/h
Battery range	17.5 km
Battery capacity	5000 mAh / 72 Wh
Charging time (0-100%)	Approximately 88 minutes (using a 65 W portable charger)
Charging temperature	0°C to 40°C
Operating modes	Transparent, Eco, Hyper, Fitness
Smart modes	Cycling, Down Stairs, Downhill, Gravel, Mountain, Running, Speed Walking, Up Stairs, Uphill, Walking
Smart control	watchOS, iOS, and Android
Protection rating	IP54
Operating temperature	From -20°C to 60°C

Gross weight: 4740, Net weight: 2000, Box length: 53,50, Box width: 20,00, Box height: 36,00, Last delivery: 18.08.2026, GPSR Link: https://psr.innpro.pl/sport/sg_sport__exoskeleton.pdf, Information about data generation: <https://dataact.innpro.pl/hypershell/6977518000140>, PPWR: <https://ppwr.innpro.pl/en/hypershell>

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