

Heimgear

Redefining human capability

A TransitX Company

www.heimgear.com



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Robotic Walker



Top-Performing Exoskeleton.

Optimized algorithm, minimal latency in leg response, and peak motor/battery efficiency.



Adaptive Fit

Modular adjustment points ensure a perfect ergonomic fit for 95% of body types.



Zero Latency

Instantaneous mechanical response precisely mirrors human movement.



Adaptive Output

Automatically detects and adjusts force output based on leg motion state.

TECHNICAL DATA

Specifications.

| | |
|------------------------|---|
| 📄 Model No. | S1 / Mark 0.1 |
| ⚖️ Total System Weight | 2.4kg(without battery,2.7kg with battery) |
| 👤 Assistive Force | 30%-50% |
| ✂️ Dimensions | Adjustable: 150cm - 200cm User Height |
| 🕒 Response Time | < 0.05 seconds (Mechanical) |
| 🔋 Battery Runtime | 3-4 hours |
| 🌧️ Water Proof | Ip54 |



Exo Loading Aid



Active Waist & Arm Exoskeleton Suit.

It is equipped with a robust and stable power unit module, significantly reducing the physical strain on heavy manual laborers.



Cutting-Edge Materials

Been built with premium carbon fiber and aerospace-grade ali-mag alloy for a high-strength, lightweight frame.



Zero Latency

Instantaneous mechanical response precisely mirrors human movement.



Customizable Solutions

Tailored to your specific operational needs.

TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------------------------------|
| 📄 Model No. | SH1 |
| ⚖️ Total System Weight | 8.9kg(with battery) |
| 👤 Assistive Force | 50kg |
| ✂️ Dimensions | Adjustable: 150cm - 200cm User Height |
| ⚙️ Motor | 4 servo motors |
| 🔋 Battery Runtime | 5-6 hours |
| 🌧️ Water Proof | Ip5X |



Active Waist & Arm Exoskeleton Suit.

The most value-driven exoskeleton for lightweight load-handling and walking scenarios.



Passive Waist & Arm Exoskeleton Suit.

A mechanical exoskeleton designed for optimal lightweight performance across diverse heavy-load handling scenarios.



Cutting-Edge Materials

Been built with premium carbon fiber and aerospace-grade ali-mag alloy for a high-strength, lightweight frame.



Zero Latency

Instantaneous mechanical response precisely mirrors human movement.



Customizable Solutions

Tailored to your specific operational needs.



Portability and seamless fit

It eliminates intrusive bulk for all-day comfort in diverse load-bearing scenarios.



Ultrafast Donning/Doffing

Features a streamlined design for full suit wear/removal in under 10 seconds.



Customizable Solutions

Tailored to your specific operational needs.

TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------------------------------|
| 📄 Model No. | SM1 |
| ⚖️ Total System Weight | 5.9kg(with battery) |
| 👤 Assistive Force | 40kg |
| ✂️ Dimensions | Adjustable: 150cm - 200cm User Height |
| ⚙️ Motor | 2 servo motors |
| 🔋 Battery Runtime | 5-6 hours |
| 🛡️ Water Proof | Ip5X |

TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------------------------------|
| 📄 Model No. | BP1 |
| ⚖️ Total System Weight | 3.9kg |
| 👤 Assistive Force | 15kg |
| ✂️ Dimensions | Adjustable: 160cm - 190cm User Height |
| 🕒 Donning/Doffing | 10 seconds |



Exo Rucking Aid



Passive Whole body Exoskeleton Suit.

Engineered with a high-strength carbon fiber load-bearing frame, it supports up to 110kg and is optimized for emergency rescue scenarios.



Cutting-Edge Materials

Been built with premium carbon fiber and aerospace-grade ali-mag alloy for a high-strength, lightweight frame.



Ultrafast Donning/Doffing

Features a streamlined design for full suit wear/removal in under 10 seconds.



Customizable Solutions

Tailored to your specific operational needs.

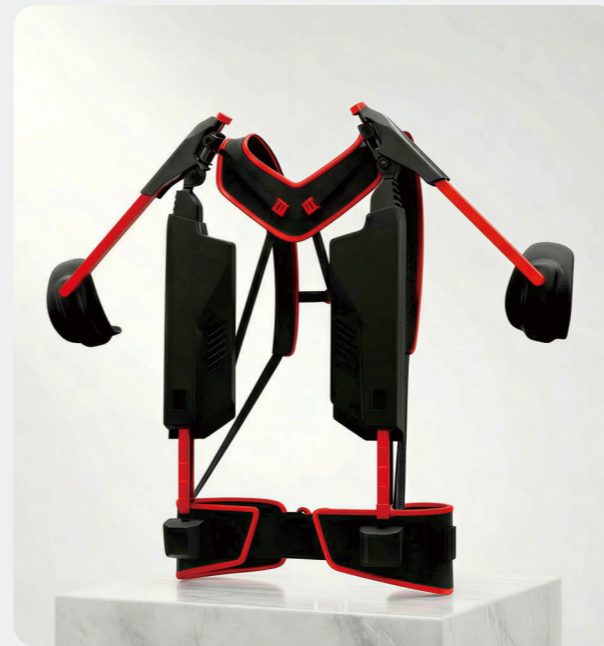
TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------------------------------|
| 📄 Model No. | WP1 |
| ⚖️ Total System Weight | 4.8kg |
| 📦 Max. Payload | 110kg |
| 📏 Dimensions | Adjustable: 160cm - 185cm User Height |
| 🔗 Joint | 14 joints |
| 🕒 Donning/Doffing | 30 seconds |



Exo Arm Cradle



Passive Arm Exoskeleton Suit.

Specifically engineered for prolonged arm-lifting tasks, this exoskeleton reduces fatigue and enhances stability.



Ergonomic Force Transfer

Mechanical design transfers arm-lifting force to the waist, reducing stress on shoulders and neck.



Ultrafast Donning/Doffing

Features a streamlined design for full suit wear/removal in under 30 seconds.



Customizable Solutions

Tailored to your specific operational needs.

TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------------------------------|
| 📄 Model No. | AP1 |
| ⚖️ Total System Weight | 1.9kg |
| 👉 Assistive Force | 15kg |
| ✂️ Dimensions | Adjustable: 150cm - 200cm User Height |
| 🕒 Donning/Doffing | 30 seconds |



Powered Towing Cart



Vest Linked to Electric Cart.

A hands-free, automated transport tool for complex terrains, enabling high-load, long-range support for individual logistics.



Heavy-Duty Capacity

With an 80kg max load, it frees up manpower for critical emergency priorities.



Ultra-Long Endurance

Offers up to 8 hours of operation to handle diverse extreme scenarios.



Customizable Solutions

Tailored to your specific operational needs.

TECHNICAL DATA

Specifications.

| | |
|------------------------|---------------|
| 📄 Model No. | C1 |
| ⚖️ Max. Payload Weight | 80kg |
| 👤 Assistive Force | 75% |
| ✂️ Dimensions | 870*740*580mm |
| 🕒 Battery Runtime | 6-8 hours |
| 🌧️ Water Proof | Ip5X |

Lower Limb Mech



For Individuals with Mobility Impairments.

Harnessing China's industrial strength, we are developing an affordable lower-limb exoskeleton. It enables walking, running, jumping, and self-balancing—committed to becoming lighter and more cost-effective with each iteration.

Expected to be launched on the market by the end of 2026.



Adaptive Fit

Modular adjustment points ensure a perfect ergonomic fit for 95% of body types.



Zero Latency

Instantaneous mechanical response precisely mirrors human movement.



Adaptive Output

Automatically detects and adjusts force output based on leg motion state.

TECHNICAL DATA

Specifications.

| | |
|------------------------|-----------------------------|
| 📄 Model No. | T1 |
| ⚖️ Total System Weight | 60kg |
| 📦 Max. Load | 100kg |
| ✂️ Dimension Height | About 120cm |
| 🕒 Response Time | < 0.05 seconds (Mechanical) |
| 🔌 Motor | 12 servo motors |
| 🌧️ Water Proof | Ip54 |



*Less than 2kg
More than 4 hrs runtime*

**The S2
Coming soon!**