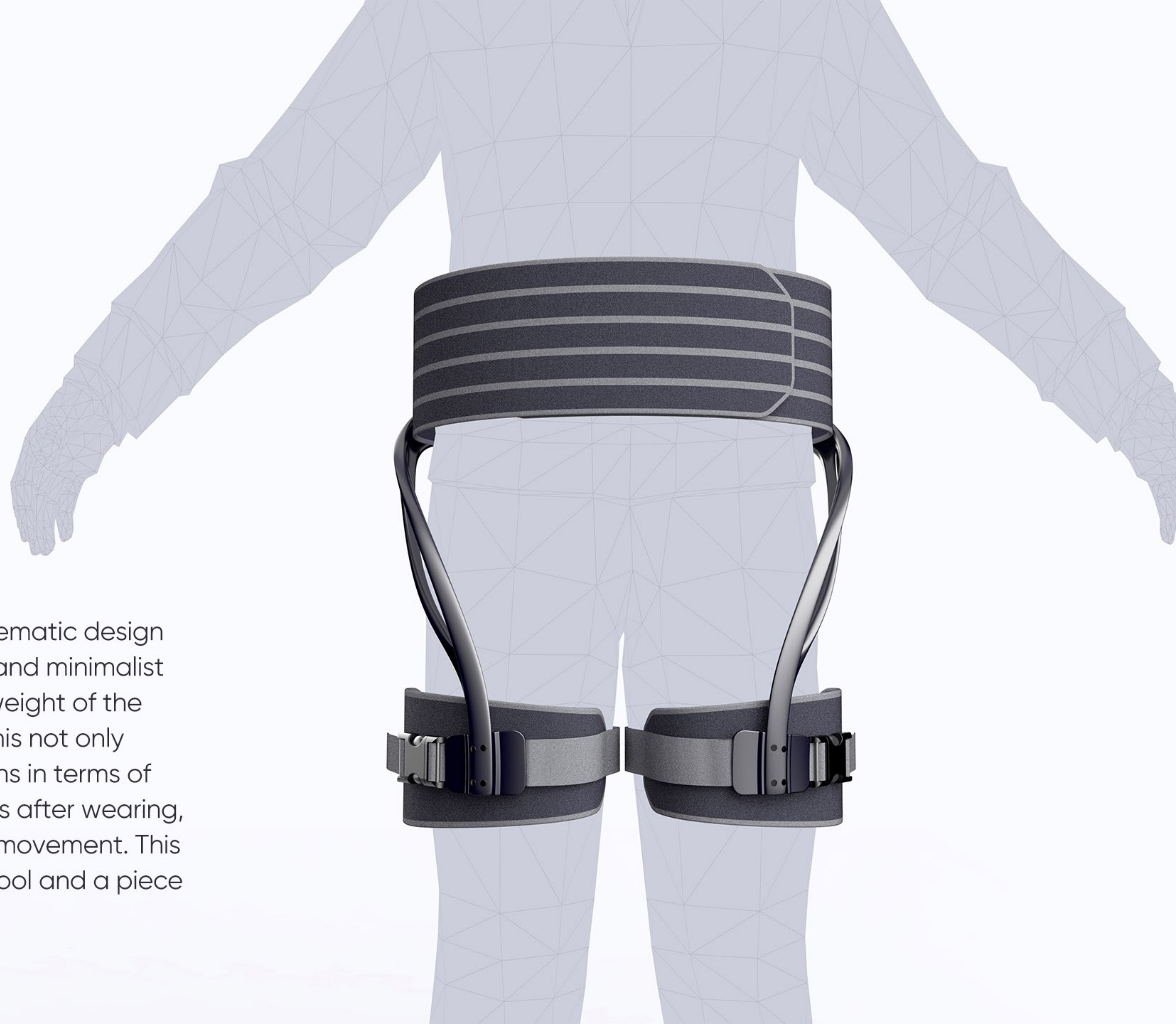


Assistive Exoskeleton

It is an assistive exoskeleton device intended for multiple scenarios, aiming to provide an efficient, comfortable, and user-friendly solution for those who need strength support and motion assistance.

Both a Medical and an Industrial Device

This device embraces a groundbreaking systematic design that integrates bionic engineering principles and minimalist aesthetics, ingeniously positioning the main weight of the drive energy source at the waist and back. This not only caters to the weight-bearing habits of humans in terms of height but also reduces the lateral dimensions after wearing, minimizing interference from the arms during movement. This device serves as both a medical assistance tool and a piece of innovative industrial equipment.



Engineering Structure for More Comfort and Easy Movement

Waist Control and Drive Unit

The waist control and drive unit features two motion motors on either side, compatible with different models of leg support rods.



Waist Straps

The straps are widened to increase the contact area with the body, delivering more stable support and precise feedback.

Leg support structure

The leg support structure, inspired by the shape of the human skeleton, is crafted from carbon fiber-reinforced composite materials, ensuring both biological aesthetics and exceptional mechanical performance. This structure adopts a modular design for quick disassembly and storage.



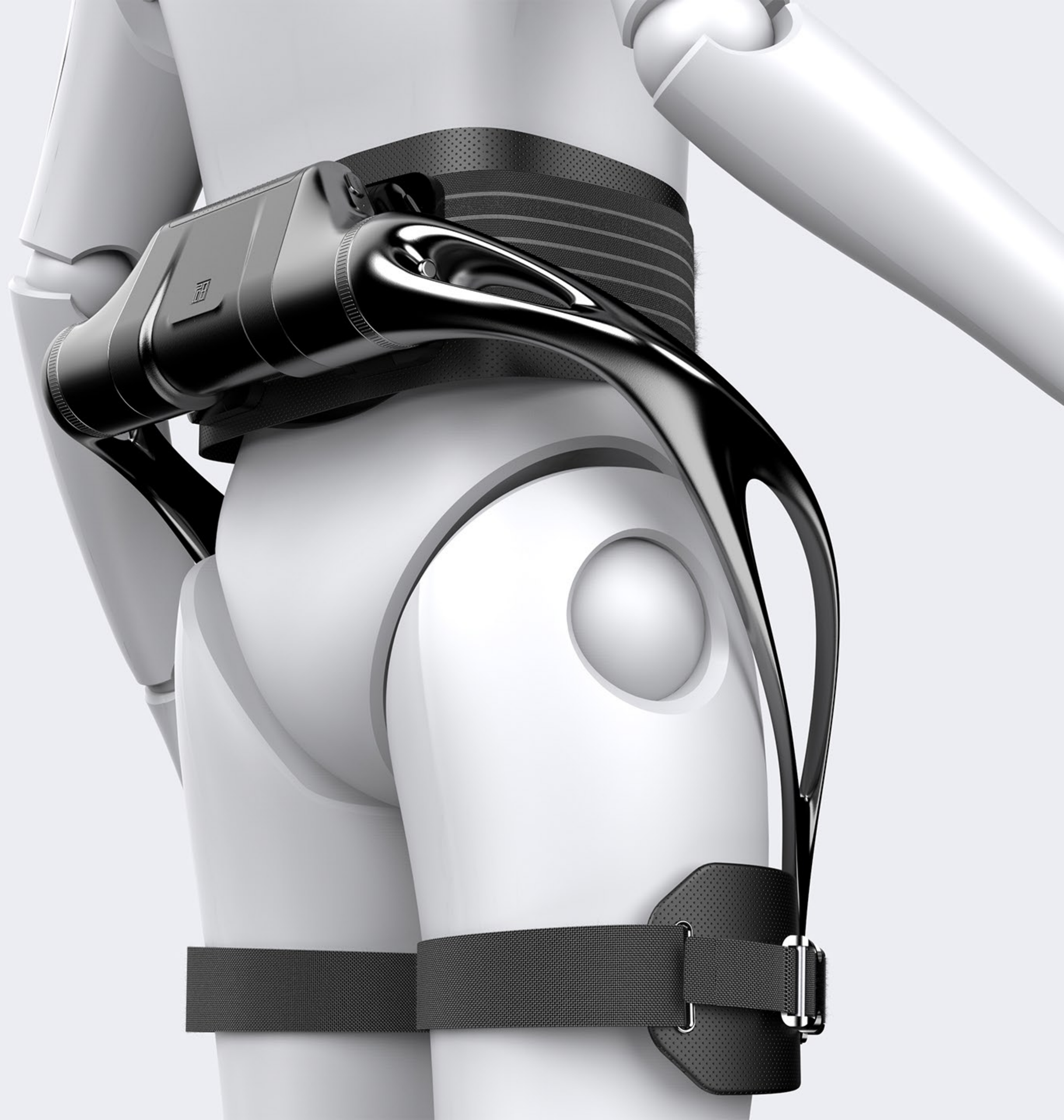
Precise and Intelligent Assistive Control

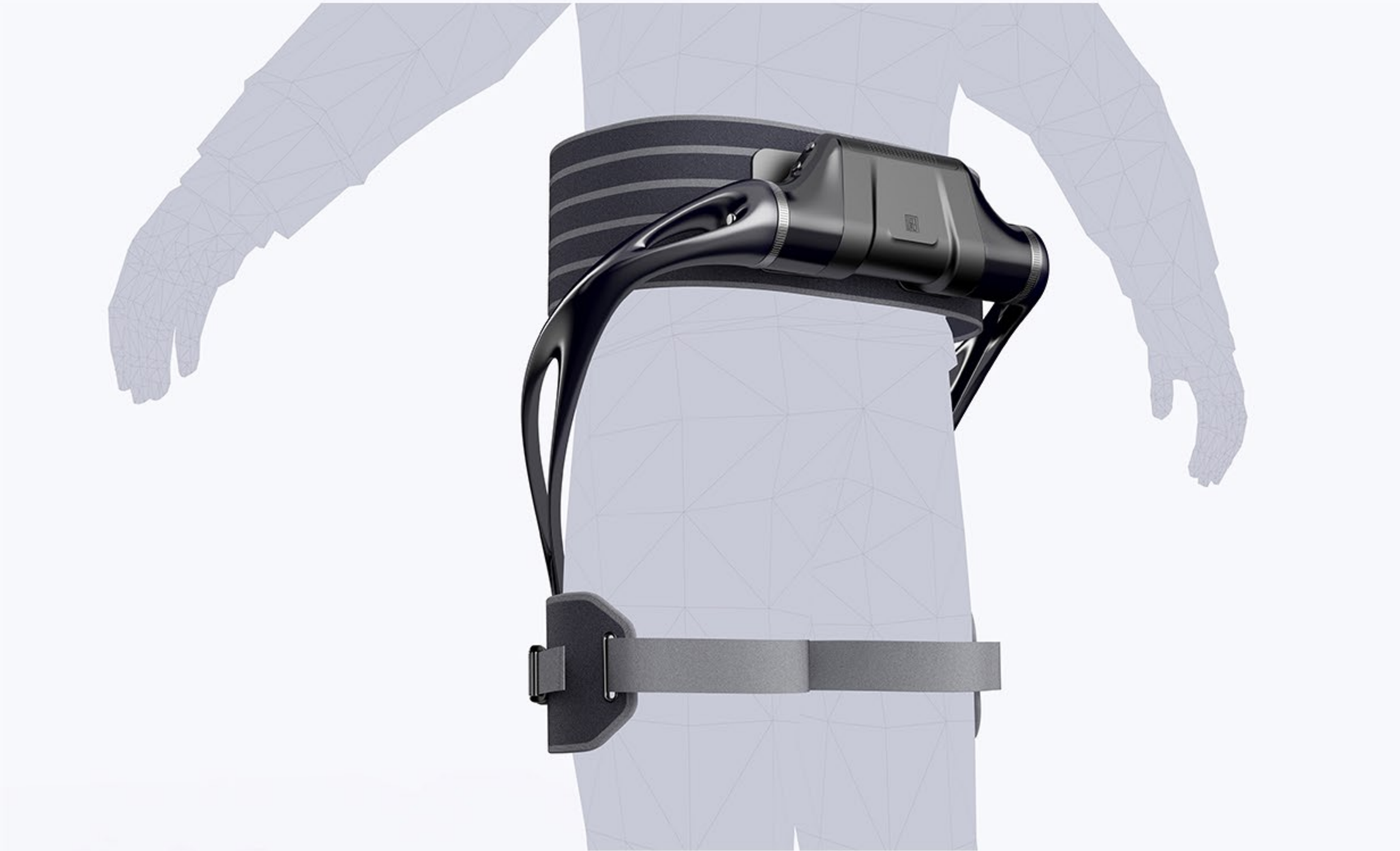
The central control system and the drive system work closely together, jointly forming a powerful core drive and sensing center. The central control system equipped with multiple sensors enables real-time collection of key data such as the user's body posture, movement speed, muscle strength, etc. The built-in intelligent state detection algorithm conducts rapid data analysis to judge the user's motion intent and physical state, thereby achieving intelligent assistive control.



Modular Design For High Portability

The leg support structure adopts a modular design for quick disassembly and storage, making it easy to carry on the go. By utilizing carbon fiber-reinforced composite materials, this structure is lightweight while ensuring robustness and durability.





Multi-scene Adaptability

This device is suitable for cargo handlers in the logistics and warehousing industry, outdoor hikers, and travelers, enabling them to move more easily with less physical exertion. It can also assist patients undergoing rehabilitation therapy in limb function recovery training or individuals with mobility challenges in enhancing their self-care capabilities.