HEROWEAR

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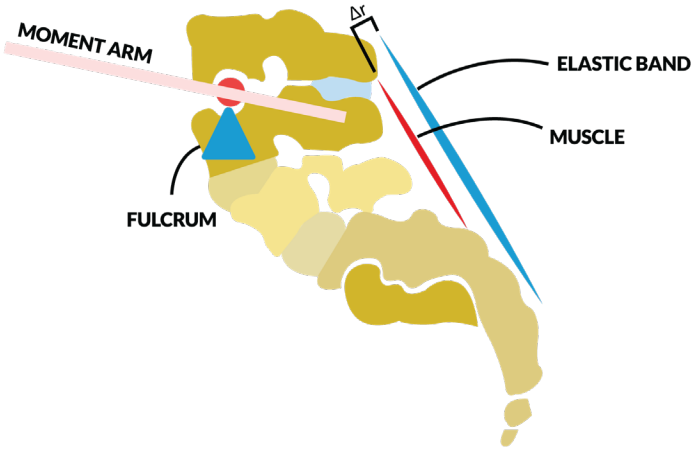
APEX EXO

THE SCIENCE BEHIND THE EXOSUIT

Born at one of the world's leading research institutions for biomechanics, the Apex excelled not only during initial studies (Lamers, Yang & Zelik 2019, Lamers et al. 2020) but those results have been verified by an independent, peer-reviewed scientific publication (Goršic et al 2021). More importantly, more than 150 users in real-world field studies reported reduction in discomfort and fatigue after using the Apex.

DISCOVER HOW THE APEX 2 WORKS

The Apex 2 employs passive elastic bands that act in synergy with the major muscle groups responsible for bending and lifting. The exosuit's design uses the advantage of an extended moment arm to decrease total forces in the system, meaning the same work can be done with less total force applied. This also reduces spinal compression forces, in addition to reducing back strain and fatigue.





REDUCED RISK OF INJURY FOR WORKERS

The HeroWear Apex 2 exosuit reduces about 40% of peak muscle forces applied and reduces fatigue by up to 40%. Back pain costs industries in the USA over $100 billion a year for medical care, workers' compensation payments, and time lost from work. The Apex 2 offers working men and women worldwide assistance they need to sustain strength and work more safely.

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APEX EXO

The Apex 2 back-assist exosuit reduces strain on the back without getting in the way. Working men and women deserve tough gear that helps them tackle tough jobs. It's a flexible 3-pound suit that takes 100 pounds of strain off your back every time you lift an object, with no motors or batteries. For some users, it's actually closer to 125 pounds of back relief.

Reduce Strain. Reduce Fatigue.



The Challenge:
Without assistance, there's no point. Without comfort, no one will want to wear it. If it's not easy to use, it will slow workers down and hurt productivity.

The Solution:
The Apex 2 is the first exosuit on the market that not only offloads 40% of back strain, but is built as a modular system to ensure that it is comfortable for users of all sizes and shapes. The high-tech textile design with no motors or batteries means users can move naturally, including in tight spaces. All while working safer than ever before.

ASSISTIVE



- Reduces back muscle strain by 40%
- Lower risk of injuries
- Improve quality of life

COMFORTABLE



- Modular design for customized fit
- Designed to reduce heat retention
- Flexible textiles for freedom of movement

EASY TO USE



- Ready to implement at enterprise scale
- No heavy motors or batteries to charge
- Simple to learn and use

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