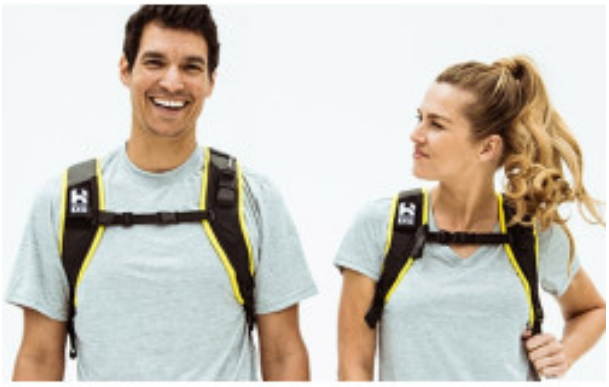
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Passive Exoskeleton - Apex HeroWear



Product short description:

Passive exoskeleton supporting the back (especially the lumbar spine), reducing the need to use maximum muscle forces, reducing the risk of back pain, strains and overuse injuries.

The lightweight Apex design (1.5 kg) is functional and effective, supporting the user's back and maintaining their strength to reduce the risk of injuries and strains. All without motors or batteries.

Apex uses passive-elastic bands that work in synergy with the main muscle groups responsible for lifting and bending. The exoskeleton design also takes advantage of the extended moment arm to reduce the total forces in the system, meaning that the same activity can be performed with less total force.

Product gallery:



Product description:

HEROWEAR

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RESULTS

- ?Reduction of 15-20% in the use of back muscle force during lifting.
- ?Reduction of 20-40% in the use of back muscle force during bending.
- ?Reduces back muscle fatigue by 30-40% when bending
- ?Studies have shown that just a 10% reduction in peak forces can result in a 50-80% reduction in tissue micro-damage, and the accumulation of micro-damage often leads to injuries such as muscle strains and fatigue fractures.

ADVANTAGES OF USING APEX

- ?Increased efficiency/productivity
- ?Extended time of performing activities without feeling tired
- ?Greater comfort
- ?Increased precision of performed activities
- ?Reduced overload in the musculoskeletal system
- ?Less injury
- ?Preserving energy for other activities

TECHNICAL DATA

Weight of the device	1.6 kg
User size ranges:	
Length measured diagonally - from the bottom of the buttock to the collarbone: - 75 cm - 108 cm	
Chest circumference	- 66 cm - 137 cm
Thigh circumference	- 48 cm - 88 cm
Support mechanism	Elastic band S 1000 or S 1500
Permissible temperature range	-20°C to + 50°C

Apex HeroWear includes

- ?1 Universal Central Unit
- ?1 Shoulder Straps: choice of type/size (male / S - 1 pc., male / L - 1 pc., female / S - 1 pc., female / L - 1 pc.)
- ?1 pairs Of Thigh Sleeve: size (S - 1 pc., M - 1 pc., L - 1 pc.)
- ?1 set - Bands (one size and two types of elasticity: S1000, S1500)
- ?1 pair - Universal Thigh Sleeve Anchor
- ?1 pc. - Belt

Product codes:

Reference: TMX-PASSIVE-EXOSKELETON-APEX-HEROWEAR
EAN13: -
UPC: -

Product features:

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Thigh circumference: - 48 cm - 88 cm
Support mechanism: Elastic band S 1000 or S 1500
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Product attributes: