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Apex 2 HeroWear - Passive Exoskeletons



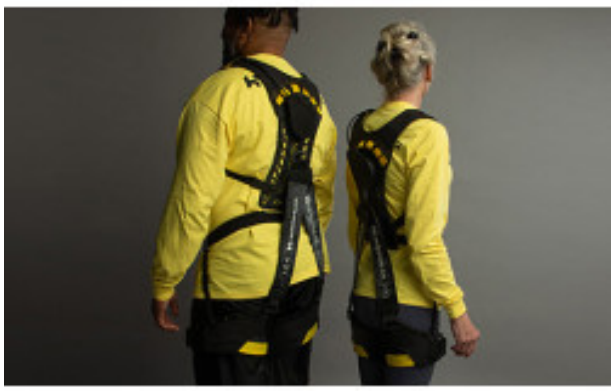
Product short description:

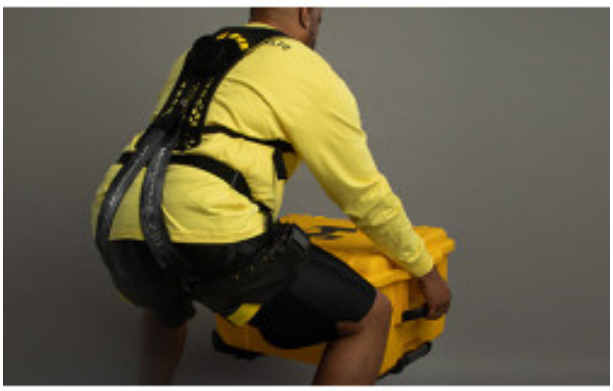
Passive exoskeleton supporting the back (especially the lumbar spine), reducing the need to use maximum muscle forces, reducing the risk of back pain, strains and overuse injuries.

The new lighter Apex2 design (1.2 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 and batteries.

Apex2 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

?15-20% reduction in back muscle force use during lifting.
?20-40% reduction in back muscle force use during bending.
?30-40% reduction in back muscle fatigue during 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 2

?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 trauma

- ?Preservation of energy for other activities

TECHNICAL DATA

Device weight	1.3 kg
User size ranges:	
Chest circumference	- 74 cm - 134 cm +
Thigh circumference	- 44 cm - 80 cm
Support mechanism	Elastic band S 1000, S 1500 or S2000
Permissible temperature range	-20°C to + 50°C

Apex 2 HeroWear includes

?1 pc. – Clutch
?1 pc. - Shoulder Straps
?1 set - Thigh Sleeves - right/left
?1 set - Bands (choice of one size and two types of elasticity: S1000, S1500, S2000)

?1 pair - Universal Thigh Sleeve Anchor
?1 pc. - Belt
?2 pcs. - Chest Straps

Product codes:

Reference: TMX-APEX-2-HEROWEAR-PASSIVE-EXOSKELETONS
EAN13: -
UPC: -

Product features:

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Product attributes: