Bionic Lift, LLC...Augmenting the Human Weapon System

with the SKELEX 360™

HOW?  WHY?  WHERE?  RESULTS
• Provides a feeling of weightlessness for the arms
• Balances muscle activity
• Does not limit the wearer's movement
• Long hours, repetitive motions & demanding postures
• Negative impacts on health & performance
• Manufacturing
• Aircraft, Facility & Vehicle Maintenance
• Assembly
• Construction
• Welding, cutting, grinding, painting, & more
• Minimized risk of ergonomic injuries
• Reduces fatigue
• Improved productivity
• Higher quality
• Increased morale

TECHNICAL SPECIFICATIONS
Model: Skelex 360
Support force, per arm: 1.1 Lbs to 7.2 Lbs per Arm (up to 14.4 Lbs total)
Mode: Single or Dual-Arm Use
Total Weight: 5.5 Lbs
Padding: Breathable and Washable Synthetic Mesh
Warranty: One-year limited

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Bionic Lift, LLC, a veteran owned & operated small business, is a national security-focused technology innovator bringing technology to companies and the military. Bionic Lift also performs research & development, industry analysis, sales, sustainment, marketing, and process improvement for exoskeletons in the workplace. They are an authorized representative and dealer/distributor of the Skelex 360, an upper-body/non-powered exoskeleton.

Bionic Lift is focused on helping solve workforce needs by improving productivity, enhancing endurance, reducing fatigue and reducing workplace injuries. Lost time caused by physically demanding jobs and associated musculoskeletal injuries negatively impacts productivity, adds costs, places additional training burdens on companies to train replacement personnel, and increases medical and workman's compensation claims.

To use, the wearer puts the 5.5 pound exoskeleton on their upper body like they would a backpack. The user then gains over 14 pounds of overhead lift assist. Three sizes of arm cups are available and adjustable sizes ensure a good fit for people between 4'9" to 6'5". The exoskeleton is currently in use by Airbus, the Dutch Air Force, Fokker, Nissan, and several other commercial companies.

“We expect people will be employable for a longer period of time and experience fewer injuries” — Innovation Officer on Skelex

Bionic Lift, LLC Information:

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RANGE OF MOTION
Range of motion for the Skelex 360. Assistance is provided to the wearer when using arms & shoulders (at the shoulder level or higher) across 80% of the human arm's range of motion.

LEGEND
- Possible
- Continuous use not recommended
- Not Reachable

HOW DOES IT WORK?
The Skelex 360™ works with energy stored in the Flex-Frame that compensates for gravity. As a result, arms and tools feel weightless without the need of motors or external power sources.