BACK UP TOOL

Ground-Level Ergonomic Support System

Ground-level work often places sustained strain on the shoulders, lower back, and knees, creating fatigue, pain, and injury risk.

01 PURPOSE / CORE CAPABILITY

- The device brings the user closer to their work
- Safely transfers 50% of the user's upper body weight away from the low back and knees onto an artificial arm.
- Frees both hands for task completion.

03 BENEFITS / VALUE PROPOSITION

Worker Benefits:

- Less pain → happier workers
- Two hands → increased productivity
- Fewer injuries → more paid hours
- Better health → job longevity

Employer Benefits:

- Fewer medical claims
- Lower insurance rates
- More stable workforce
- Increased profits

★ The system improves ergonomics, productivity, and workforce sustainability for repetitive low-height tasks.

EVOLUTIONARY TOOLS INC.

02 USE CASE / APPLICATIONS



Representative in-field use of the BACK UP™ Tool during industrial surface work.

Applicable Work Domains

- Flooring Installation
- Concrete Work
- Masonry & Tile
- Construction
- Plumbing
- Electrical
- Aerospace Manufacturing
- HVAC
- Maintenance
- Landscaping
- Irrigation
- Manufacturing
- Demolition
- Naval Shipyards

04 BACKGROUND / USER SETUP / ORIGIN

VERIFIED 66% REDUCTION IN ERGONOMIC STRAIN — BOEING



Message From Beau

"After 15 years of doing construction work, I found myself in constant pain. The long hours of working on the ground in a hunched position had taken a toll on my shoulders, lower back, and knees. I realized I couldn't continue working this way without doing serious damage to my body. That's when I got the inspiration to create the BACK UP™ Tool. I developed this device so that people in all walks of life can avoid the pain and injury caused by working at ground level."

— Beau Sitzmann, inventor of the BACK UP™ Tool