



GSE Innovations

designing equipment that boosts occupational health, performance
and prevents injury

EMPOWERING SAFETY: Ensuring a safe return home for all ramp teams

**ground
handling**
INTERNATIONAL

Safety Conference

GHI Conference

24 FEBRUARY 2026 • Hilton London Gatwick Airport, London





Est.	2003	Airports Served	230+	Countries Served	40+
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- Founded in 2003 by Martin Vestergaard
- 100% owned by the M. Vestergaard family
- Production & Sales in Denmark (HQ) and USA
- Sales Offices UK, Italy, Singapore, China

The genesis of the company was to develop solutions that:

- ✓ Improve working conditions for airport baggage handlers
- ✓ Enhance efficiency



Injuries Related to Baggage Handling



A baggage handler lifts on avg. 4-5 tons/day some days up to 10 tons.

(Source: Koblauch)



Manual baggage lifting & handling are the main risk factors for WMSDs* among baggage handlers

(Source: NIOSH)



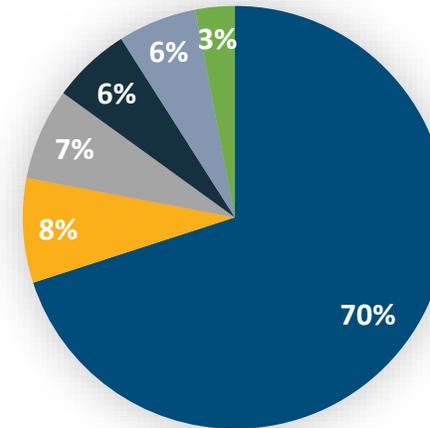
40% of injuries to employees in air transport caused by heavy lifting and carrying (Source: HSE)



Back and shoulder injuries can easily cost the employer **\$20,000 - \$40,000 per incident**

* work-related musculoskeletal disorders

Baggage-handler Opinions on Locations Likely to Cause the Most Back Injuries

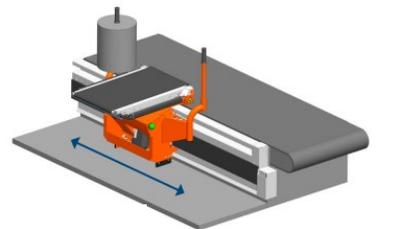
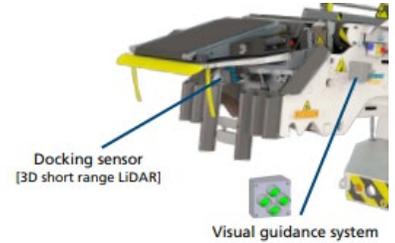


Source: Geoff Dell

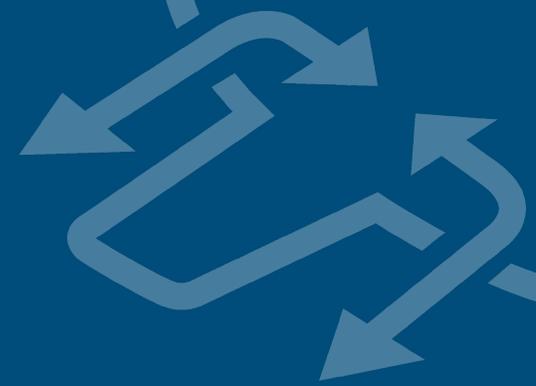
- Inside narrow-body- aircraft baggage compartments
- Baggage check-in areas
- Outside the aircraft on the tarmac
- Baggage-sorting rooms
- Inside wide-body-aircraft bulk holds
- No response

7 Ergonomic Risks in the Bag Journey

Departures



Arrival



Inside Aircraft Compartment & Ramp

Rollertrack Conveyor

Inside Aircraft Compartment

- **Efficient:** Faster with fewer people
- **Improved working conditions:** 50% fewer work-related injuries
- **Safe:** Enhanced safety for ramp agents, aircraft and baggage



Tail Loader

Rear end of belt loader

- Extended reach and bridge to baggage cart
- Flexible baggage cart position
- Better working conditions
- 1-person operation
- Gentler baggage handling



No lifting, twisting and carrying of luggage





Baggage Hall

Transfer Belt

At the arrival belt

- Increased productivity
- Fewer injuries
- Less damage to baggage
- Seamless integration
- Increased utilization of existing installations



No lifting, twisting and carrying of luggage





Thank you!

