



Optimal Cargo & Baggage Handling Solution

Industry problems



On-site Injuries

76% of ramp agents will have a time-loss injury at one point in their career. Only 1/3 of them get recorded as time-loss injuries, and they are costing airlines money in hard-to-measure ways. Injured employees will be less efficient, call in sick more often, have lower morale and be more likely to seek work elsewhere.



Departure Delays

Three of the top 7 reasons aircraft are delayed involve the loading and unloading process.



Worker's Compensation

On average, a worker's comp claim costs \$122,000 for direct cost and increased premiums. Indirect costs such as administration, overtime, and additional stress on a crew are also significant.



Loading Times

Experienced crew manually handles 15 bags a minute. With TISABAS, the team is not stressed, and even an inexperienced team can move 16 bags a minute at its slowest speed. TISABAS fast speed moves up to 24 bags a minute. MUT (make-up time) is huge with this potential.



Damage Claims

- ✓ Airlines spend \$2.1B in baggage claims a year.
- ✓ Damage to cargo and mail is also a factor.
- ✓ Throwing items also results in substantial damage to the aircraft.



Decreased Revenue

Cargo often gets bumped because the lead feels he or she doesn't have time or doesn't want to stress the crew further. This slows down the flow of operations, which affects the ability to bring in revenue.

The solution - TISABAS



TISABAS is a compact motorized folding conveyor system that goes into the aircraft belly and mechanically moves baggage and cargo. This eliminates the need to throw heavy baggage, mail and freight the length of the aircraft.

This approach also reduces time and operational costs, while making ramp agent jobs safer, easier and more efficient. Air carriers, ground-handling contractors and freight operators using TISABAS can:

- ✓ Load More in Less Time
- ✓ Lower Agent Turnover
- ✓ Reduce Operation Costs
- ✓ Decrease Agent Injuries
- ✓ Reduce Damage to Aircraft and Baggage



Benefits of using TISABAS



Motorized Conveyor

Utilizing a motorized conveyor reduces the manual labor needed to move cargo/bags, and facilitates an ergonomic work environment, reducing injuries.



Safer Work Environment

TISABAS allows baggage/cargo handling staff to complete their work in an ergonomic position in cramped conditions.



Low-Cost Solution

TISABAS is approximately 85-90% less expensive to purchase than our closest competitor or the current manual method.

To Ramp Agents, the benefits are priceless.



Increased Efficiency

With TISABAS, handling teams are able to move more cargo and baggage in less time, and with fewer people.



Reduces Damage

TISABAS allows for a smooth delivery process of luggage and cargo. This eliminates the impact of items being thrown down the belly of the plane, and nearly eliminates any damage from that process to planes, cargo and members of your team.



Increased Profitability

With TISABAS, you can move more material in less time with minimal stress on the crew. As a result, airlines can consistently move more cargo on passenger flights, **ADDING REVENUE DIRECTLY TO THE BOTTOM LINE.**



I think TISABAS will greatly reduce the chances of my crew getting injured. It makes the physical aspects of the job so much easier.

Tim Holder
Ramp Service Agent



The way the conveyor works is very slick! Folds out easy, folds up easy and compared to throwing the bags TISABAS makes the job so much easier.

Bill Greer
Ramp Service Agent



It saves time, it saves effort, it saves manpower! It will save on injuries, cost of injuries and keep newer people around longer.

Evan Sutton
Ramp Service Agent



TISABAS makes the whole process better on my back, better on the bags, and better on the aircraft.

Bob Weaver
Ramp Service Agent



This is how we do it (TISABAS). Preighter efficiency at its finest. From 6hr turn arounds to just under 2.5 hrs. We give the aircraft back to the operators quicker so they can fly more and make more while saving the backs of our staff. Your development will increase the efficiency in cargo and baggage handling. It will save the bucks of our front-line ambassadors. We thank you for helping us to achieve our 25-minute turnaround mandate.

Luis Ramos
CEO, Aerocharter



A great solution to minimize the workload for the baggage handler.

Søren Gaarn Jensen
Work Environment Assistant, SAS



The way the conveyor works is very slick! Folds out easy, folds up easy and compared to throwing the bags TISABAS makes the job so much easier.

SGW Designworks
LinkedIn Review

How is TISABAS powered?

- ✓ TISABAS is powered by converting the belt loaders 14-volt power to 24 volts by simply hooking a converter to the battery posts and then running power cables with a quick connector that plugs into TISABAS.

What costs will TISABAS help to lower?

- ✓ Agent Injury and turnover and all the costs associated with these!
- ✓ Damage to the aircraft as well as to baggage, mail and cargo!
- ✓ Reducing cost of delays.
- ✓ Because of increased efficiencies, team members can be moved to other flight quicker and will be less tired when they get there.
- ✓ Increase revenue by being able to consistently move more cargo.

What is the length of a single unit?

- ✓ Four sections are 1.5 meters (5 feet) each in length, with a total folded-out length of 6 meters (20 feet). Using standard tools, we can easily remove the sections in 5-foot increments.

What % of damage to luggage will TISABAS decrease?

- ✓ Damage to bags, mail and cargo happen in the aircraft belly, and nobody can completely eliminate it. Using the TISABAS system reduces such problems SIGNIFICANTLY.



Extended flat Dimensions

- ✓ Length 20 ft x Width 2 ft x Height 3 in / Length 6.1 m x Width .61 m x Height 7.6 cm

Weight

- ✓ 180 pounds / 81.6 kg

Variable Speed

- ✓ 16 bags per minute & 22.9 bags per minute

Temperature Range

- ✓ -20F to +120F/-29C to +49C



Folded Dimensions

- ✓ Length 24 in x Width 21 x H 32 in / Length 60.9 cm x Width 53.3 cm x Height 81.3 cm

24 Volt System

- ✓ Converts from 14V & 72V

Weight-Bearing Capacity

- ✓ 150 pounds per ft² / 732.4 kg per m²

Additional Features

All-Weather Operations - Safety Enhanced - Ergonomically Designed - Ramp Agent Approved - Sectional Power Switches - V- Belt Technology - Belt Material - Drive Rollers - Drive Card - Control Buttons - Directional, Fast, Slow, Stop / Pushbutton - Momentary - Aluminum Frame - Composite Easy-Grip Handles



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**Thanks for
watching**