K.Handle

# ErgoUnload

Ergonomic unloading solution to increase efficiency



#### The challenge

Traditionally, unloading vehicles at parcel centers requires intensive manual labor that is not only timeconsuming, but often also ergonomically challenging. In conventional unloading processes, parcels are placed one by one onto the telescopic conveyor, typically requiring lifting and twisting movements. This process is critical to a parcel hub's efficiency and capacity. With the growing shortage of personnel, increasing attention to workplace ergonomics and limited available space, implementing new technologies is becoming more essential.

#### Our solution

ErgoUnload has been engineered to facilitate semiautomatic bulk unloading and increase the unloading capacity of the trailer's loose load in front of a telescope. The system is designed to be operated by just one person. Bulk unloading is achieved by pulling multiple loose-loaded items onto the flaps or directly onto the incline belt at once. Items rarely need to be lifted onto the flaps or belt. This allows the operator to ergonomically unload multiple parcels simultaneously and automatically transfer them to the telescopic conveyor without lifting or repetitive twisting motions. ErgoUnload greatly improves manual work while ensuring fast and gentle parcel handling. The innovation significantly increases throughput, optimizes space utilization (for greenfield projects) and reduces operational costs. At the same time, it effectively alleviates the physical demands on the operator.

#### **Customer benefits**

- Fast system setup with minimal impact on live operations and connection to existing MHE
- Up to 50% reduction in unloading time with single-person operation
- Reduces the physical effort required to lift items from 50-100% to less than 10%
- At least double the throughput per dock, up to 3,000 parcels per hour
- · Unloading of bulk or singulated parcel flow





# Technical data - metric

Throughput	up to 3,000 parcels per hour
Length	3,200 mm
Width	1,100 mm
Channel width	900 mm
Belt transport speed	adjustable up to 0.5 m/s (pref. 0.35 m/s)
Power consumption	1.1 kVA
Weight (w/o control cabinet)	approx. 950 kg
Temperature range	0°C - 40°C
Relative humidity (operation)	10% - 90%

# Parcel spectrum

Length	100 mm – 1,400 mm
Width	50 mm - 850 mm
Height	1 mm - 750 mm
Weight	up to 40 kg



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# Technical data - imperial

Throughput	up to 3,000 parcels per hour
Length	125.9 in
Width	43.3 in
Channel width	35.4 in
Belt transport speed	adjustable up to 1.6 ft/s (pref. 1.1 ft/s)
Power consumption	1.1 kVA
Weight (w/o control cabinet)	approx. 2094.4 lb
Temperature range	32°F - 104°F
Relative humidity (operation)	10% - 90%

# Parcel spectrum

Length	3.9 in – 55.1 in
Width	1.9 in - 33.5 in
Height	0.04 in - 29.5 in
Weight	up to 88.2 lb



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