



Ranger™  
**MOBILE  
SORT**

# Meet Ranger™ MOBILE SORT

Ranger™ MOBILE SORT is a modular system designed to manage volatility in parcel sortation in an investment friendly manner. Designed to autonomously pre-sort parcels for dispatch, even with limited space, Ranger™ MOBILE SORT is best suited to solve the sortation problems of ecommerce and logistics players experiencing rapid business changes.

Ranger™ MOBILE SORT is portable and scalable so you can flex up or down with order peaks and lulls. Which means that the operating cost can be reduced during lean periods by running only the required number of robots. Ranger™ MOBILE SORT can easily adapt to most layouts. The bots can be easily moved across DCs and deployed across multiple brands in time with order volumes and regional peaks. This can significantly reduce the capex needs at an enterprise level. Powered by GreyMatter™, the Ranger™ MOBILE SORT leverages AI and ML to take high yield decisions, deliver higher throughput and ensure error-free sortation.



Mobile spatial obstacle detection logic



Intelligent navigation algorithm powered by GreyMatter™



Dimension Weight Scanning to accurately price shipping



Autonomous charging



Twin-belt carriage system for higher throughput



Overcome volume constraints and avoid or delay traditional sorter upgrades by flexibly augmenting sorter capacity

## Fleet of modular sortation robots

Designed to address current and future challenges of sortation

01

Induct stations for feeding & Dimensioning Weighing System



02

Ranger™ MOBILE SORT moving to destination



03

Sorting into a variety of end chutes locations





## Versatility

Ranger™ MOBILE SORT can handle a variety of parcels such as poly bags, packets (plastic packets), non-boxed items and thin parcels while improving the sorting accuracy and decreasing the cost per shipment

## Scalability

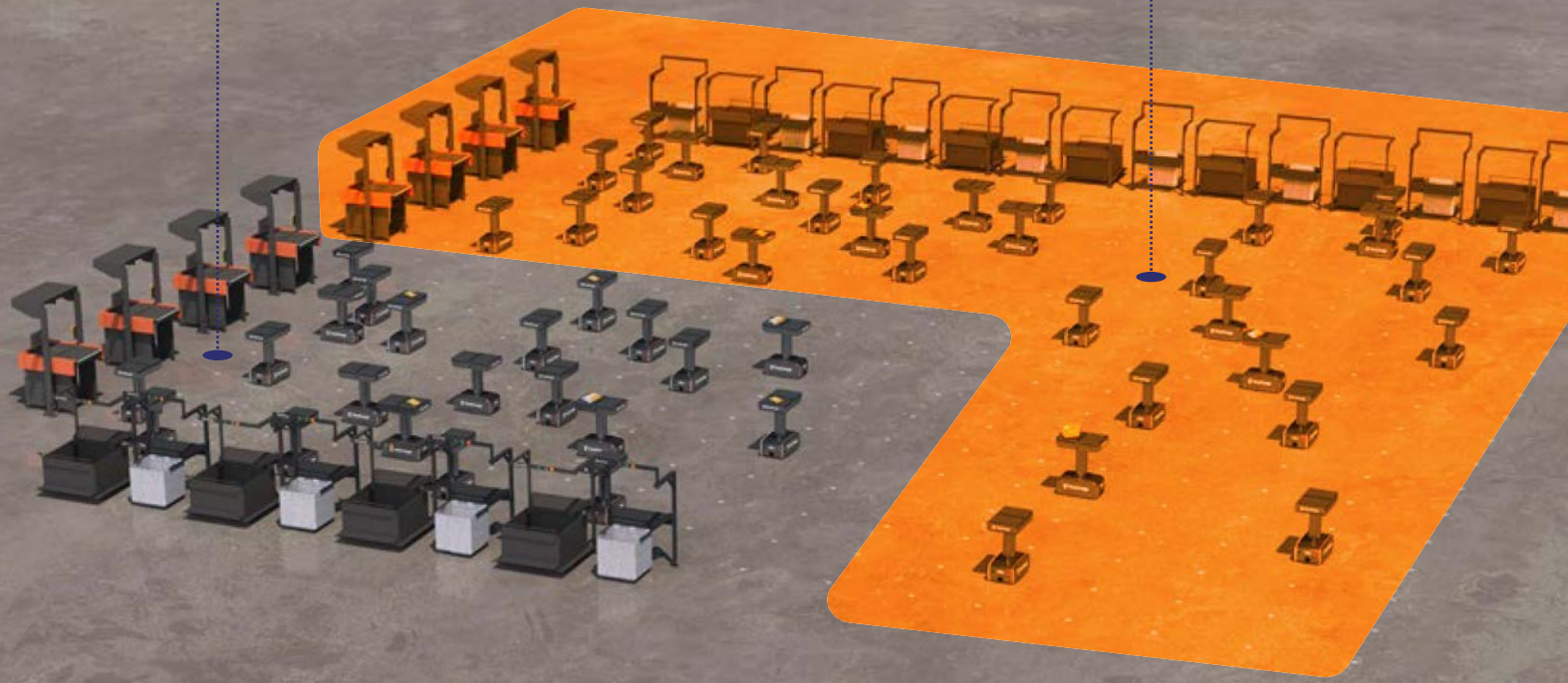
Start with what you need today and easily scale up the capacity as the need arises. Leverage the freedom to flex up or down with order peaks and lulls to save on operational costs





Layout Today!

Adapt Tomorrow!



MOBILE | MODULAR | FLEXIBLE | PORTABLE

## MOBILE SORTATION SYSTEM



### FLEXIBLE

Minimal infrastructure dependence allows Ranger™ MOBILE SORT to adapt to any layout pre or post installation



### MODULAR

Plug-and-Play components to build the sortation system









### PORTABLE

Hassle-free relocation across warehouses with minimal downtime






## Specifications

- 
**Throughput Configurations**  
 Up to 12,000 PPH (Parcel per hour)
- 
**Parcel Weights**  
 Up to 77 lbs (35Kgs)
- 
**Integrated Dimensioning, Weighing, Scanning System**
- 
**Autonomous charging**
- 
**Fulfillment Operating System**  
 Powered by GreyMatter™ Software
- 
**Parcel Versatility**  
 Non-boxed Parcels, Polybags, Envelopes, Cases

## Mobile sortation system advantage over conventional systems

Factors	Conventional Systems	Mobile Sortation System
Execution	Project Based	Product Based
Order to Go Live	4-6 months	2-3 months
Cost of Operation	Flat across workloads during peaks as well as lean periods	Optimized for lean period operations
Throughput Scalability	Difficult to scale the throughput due to technology constraints usually a step value of 2000+ parcels/hour	Scaling up or down in multiples of 500 parcels/hour; scalable in matter of days.
Sort Destination Scalability	Difficult - conveyor length increase with inflexible installation	Sort destinations can be easily increased without downtime
Portability	Difficult - Fixed Infrastructure	Easy – Minimal Fixed Infrastructure within or across warehouses
Initial Investment	Higher; Business sense to start with future projection needs now	Lower; Start with current needs; Scale up as business grows
Layout Flexibility	Usually requires a inflexible rectangular layout	Flexible - can adapt to available space

### The GreyOrange Advantage:

- 
 Offers holistic customer experience from designing solutions to providing world-class integration and installation services, followed by comprehensive warranty and maintenance support
- 
 Modular architecture to adapt to dynamic business needs
- 
 24x7 multi-lingual global customer support



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sales@greyorange.com  
 Sales: 833-997-6268  
 greyorange.com

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