



Ranger™ GTP

Goods-to-Person System

Ranger™ GTP is an innovative Goods-to-Person solution that automates material movement in warehouses and delivers higher throughput, accuracy, and productivity. Ranger™ GTP intelligently navigates through the DC to bring inventory to workers via Mobile Stock Units (MSUs). Workers interact with GreyMatter™ intelligence to understand tasks, robots communicate in real-time with the GreyMatter™ hub as orders are continuously evaluated and prioritized for the highest yield.

Ranger™ GTP delivers greater efficiency and faster speed-to-fulfil. It has the ability to handle a variety of items including apparel, home furnishing, and personal care, etc. Warehouses that serve retail stores, ecommerce or omnichannel consumers can now run high-speed, cost-efficient operations by automating order fulfillment processes (put-away, storage, replenishment, and picking).

The modular architecture of the Ranger™ GTP system allows on-demand bi-directional scalability, increasing storage volume or fulfillment throughput independently.

Product Details



Ranger™ GTP (M)

- ▶ Payload type: Items, Cartons, Apparel on Hangers
- ▶ Payload: 600 Kg (1322 lbs)



Ranger™ GTP (XL)

- ▶ Payload type: Pallet, Drums, Sacks, Cartons
- ▶ Payload: 1600 Kg (3527 lbs)



Mobile Stock Unit (MSU)

- ▶ Stores big and small cases, individual items, pallets, and much more
- ▶ Ability to reconfigure when inventory characteristics change over time
- ▶ Variants: Hangers for apparel, bins for auto-spare parts and pallet/barrel drums for manufacturing



Pick Put Stations (PPS)

- ▶ Multi-purpose workstation with multi-lingual user interface for guided pick, putaway, audit and returns operations
- ▶ Enables operator to fulfill up to 48 orders simultaneously
- ▶ Variants: Supports various configurations including pallet handling, put from/pick to conveyor and roll cages



Ranger™ Pick

- ▶ Works with Ranger™ GTP to fully automate order picking
- ▶ High picking performance, unlocking the next level of efficiency and cost saving



Lift

- ▶ Multi-floor operations



Smart Charging Station

- ▶ An intelligent side-dock charging that enables opportunity charging to ensure 24x7 operations.

Fulfillment Operating System

Powered by GreyMatter™

The GreyOrange Fulfillment Operating System is the only solution combining AI-driven GreyMatter™ software + intelligent Ranger robots to drive deeper data, dynamic decisions and demand driven delivery for high yield fulfillment results.

GreyMatter™ applied science autonomously orchestrates data, rapidly responds to real time events and prescribes actions to continuously calculate and execute the next best fulfillment decision. GreyMatter™ intelligence is incorporated as a learning layer in the Ranger robots so that they operate and adapt as order patterns and fulfillment expectations fluctuate. GreyMatter™ leverages Artificial Intelligence (AI) and Machine Learning (ML) to optimize large and complex operations for different industries.

The continuous exchange of information from software to hardware and back to software, helps the system to minimize the cost, maximize the revenue and deliver High Yield Fulfillment™



Ranger™ GTP Advantages

Reducing time spent on order fulfillment and inventory replenishment in warehouses and the ability to quickly adapt to changing business demands is imperative for businesses today to gain a competitive advantage.



For more information please scan this QR code

Technical Specifications

	Ranger™ GTP (M)	Ranger™ GTP (XL)	
Size and Weight	Dimension	970 x 680 x 385 mm (38.2 x 26.8 x 15.2 in)	1390 x 900 x 465 mm (55 x 35 x 18 in)
	Weight	190 Kg (419 lbs)	520 Kg (1146 lbs)
Operating Environment and Infrastructure	Operating Temperature	5° - 45°C (41°-113°F)	5° - 45°C (41°-113°F)
	Operating Relative Humidity	30% - 95%, Non-condensing	30% - 95%, Non-condensing
	Floor	Standard concrete warehouse flooring with or without epoxy or surface hardeners.	
Performance	Maximum Total Payload	600 Kg (1322 lbs)	1600 Kg (3527 lbs)
	Maximum Speed	1 m/s (2.23 mph)	1 m/s (2.23 mph)
Battery and Power Management System	Battery	Lithium-ion	
	Charging	Smart side-dock charging without manual intervention. 24/7 operation enabled by Opportunistic and Greedy algorithm - driven by GreyMatter™. Operational longevity of the batteries with GreyOrange proprietary BMS and ACB algorithms	
Interfaces, Communication and Safety	Components and Accessories	Ranger™ Mobile Stock Units (MSU) and Pick-Put-Stations (PPS) configured as per application. Smart Chargers.	
	Communication	Wi-Fi (IEEE 802.11 a/b/g/n, 2.4 GHz, 5GHz)	Wi-Fi (IEEE 802.11 a/b/g/n, 2.4 GHz, 5GHz)
	Safety Features	Bi-directional Obstacle Detection System with infrared sensors. Detects objects as small as 150 mm x 50 mm in diameter. Minimum distance from Ranger™ GTP to obstacle of 450mm (17.7 in) without load. Two emergency stop switches and bi-directional bumpers for additional safety, fire and earthquake response.	



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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