OPEX® INFINITY®
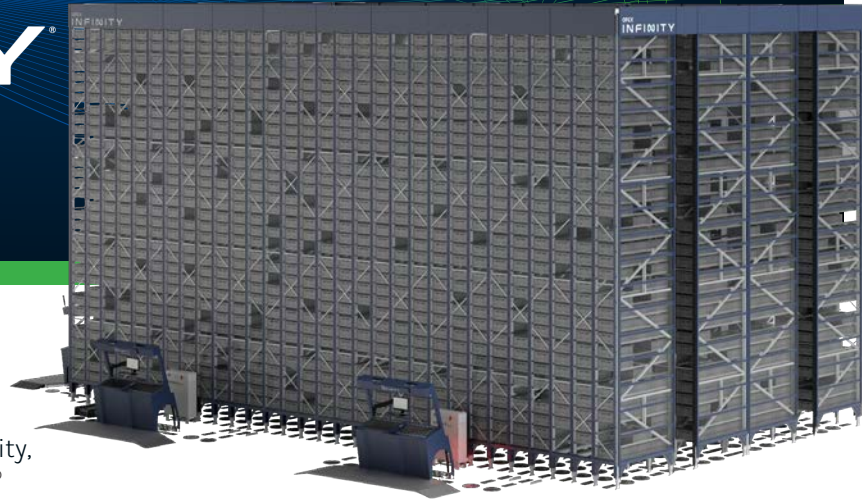
Next Generation Goods-to-Person

WHY INFINITY®?

The next generation in goods-to-person technology, Infinity® automated storage and retrieval system, combines unparalleled storage density, configurability, and flexibility with the full capabilities of the Cortex® software platform to power your business now and in the future.

Engineered for unlimited flexibility and scalability in both throughput and storage, the Infinity goods-to-person system is ideal for multiple applications, including omni-channel distribution, store replenishment, micro-fulfillment, and ecommerce, providing users with unmatched reliability and accelerated throughput. The configurable rack design allows for maximum warehouse space utilization around obstructions or other equipment, accommodating various workflows and site layouts. A single Infinity iBOT® wireless robotic vehicle travels under the storage structure and passes through the aisles, minimizing distance and saving time. Carrying up to 90 lbs., Infinity iBOT robots have access to the entire storage array and deliver totes to decoupled presentation ports outside of the system. The Infinity system easily scales to accommodate the needs of growing demands by allowing for additional Infinity iBOTs, presentation ports, and grids.

FEATURES

INFINITY iBOT®

Infinity iBOT robots have access to every storage location within the entire system, both horizontally and vertically, and deliver inventory directly to any presentation port, eliminating the need for multiple pick zones. They continuously recharge as they navigate through the system.

MULTI-DEEP STORAGE

The Infinity system uses a unique interlocking system to store totes triple-deep, eliminating any wasted space and maximizing storage density. Storage can be configured as both triple and double deep tote storage, providing you with more flexibility to accommodate your unique system requirements.

DECOUPLED PRESENTATION PORTS

Infinity iBOT robots travel freely throughout Infinity and deliver totes directly to decoupled presentation ports arranged around the perimeter of the rack system. Ports are available in single or dual configurations for increased flexibility and efficiency.

CORTEX® SOFTWARE PLATFORM

Powering the entire Infinity system, OPEX Cortex software allows for inventory management, optimizes storage space utilization, drives accurate order picking, and controls iBOT travel paths to achieve maximum efficiency and throughput.

ADVANTAGES

COMPACT & SCALABLE

Designed to grow with your business, additional modules and iBOT robotic vehicles can be added to the system to increase storage and throughput needs.

EFFICIENT

Dual presentation ports decoupled from the system provide maximum flexibility, requiring fewer operators. Overhead port projection guides order picking for fast, accurate results.

SECURE

Store inventory safely within the system and control access using Cortex software, which allows operators to only retrieve inventory using the presentation port.

UNDER RACK MOVEMENT

Infinity iBOT robots access all inventory and port stations, moving freely underneath and throughout the system with no wasted mechanical motion, saving time and costs.

CONFIGURABLE

Customize the Infinity system based on your needs with additional expansion modules, additional totes, and configurable tote sizes to better utilize warehouse space.

RELIABLE

The Infinity solution's unique zoned safety system allows users to take part of the grid down for maintenance while the rest of the grid remains operational for fulfilling orders.

SPECIFICATIONS

BASIC SYSTEM CONFIGURATION

Height	min: 9' - max: 32.5' (min: 2.7m – max: 9.9m)
Seismic	High seismic area supported
Presentation Port Configurations	Decoupled Single or Double Port
Tote Input/Output	2-4 Port Configurations
Storage Density	Triple Deep (Preferred), Double Deep (Supported)
Storage Slot Spacing	4", 6", 8", 10", 12" (10.16, 15.24, 20.32, 25.4, 30.48 cm)

IBOT

Payload	90lbs (40.8 kg)

TOTE/TRAY

Dimensions (W x L x H)	20"W x 30"L x 2/8/10/12/14"H (50.8cm x 76.2cm x 5.08/20.32/25.4/30.48/35.56cm)
Cell Configurations	up to 24 cells

WORKSTATION

Options	Automated, Manual (Table or Pallet), Pick-to-Cart
Wireless	2.4Ghz, 5Ghz, 6Ghz

INFINITY SYSTEM FUNDAMENTALS

INFINITY iBOT

UNDER RACK MOVEMENT

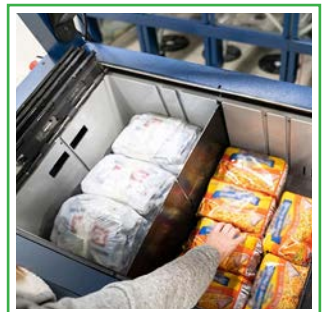**DECOUPLED PRESENT PORT**

ERGONOMIC PICKING

Have questions?
Contact us.

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OPEX®