

## Target Industries

Courier & Postal · Fashion & Apparel  
E-commerce · Retail · Manufacturing



## Use Cases

Order-Based Sorting  
for E-commerce

Item Sorting  
by Offline Store

Sorting by  
Shipping Destination

Material Transport  
Between Processes

Inbound Sorting  
by Storage Zone

Return-to-Stock  
Sorting by SKU



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## SOBOT

SOBOT stands for "Sorting Robot," a robotic sorting solution powered by LG CNS's proprietary path optimization technology.

It delivers high-throughput performance with flexible layout configuration and scalable deployment to adapt to changing operational needs.

## Key Features



### Advanced Path Optimization

Leverage LG CNS's IT expertise and robotics experience to optimize operations through advanced path planning algorithms



### Interoperability

Enable seamless integration with external systems through standardized APIs for upstream and downstream connectivity



### Scalability

Easily scale operations by adding robots, storage infrastructure, or workstations based on evolving demand



### Flexibility

Support easy relocation and rapid deployment across diverse and changing operational environments



### Operational Visibility

Provide real-time monitoring and control through an intuitive interface for efficient operation and rapid issue response



## Robot Specifications

Item	Specification
Dimension (W*D*H)	21.3 × 23.0 × 29.1 in (540 × 580 × 748 mm)
Self Weight	154 lbs (70 kg)
Rotation Diameter	27.6 in (700 mm)
Max Speed	8.2 ft/s (2.5 m/s)
Max Acceleration	8.2 ft/s <sup>2</sup> (2.5 m/s <sup>2</sup> )
Safety	Emergency Stop, Bumper sensor

## Navigation & Accuracy

Item	Specification
Navigation	DM Code
Matrix Distance	29.5 in (750 mm)
Position Accuracy	±0.4 in (±10 mm)

## Load Specifications

Item	Specification
Max Payload	44 lbs (20 kg)
Load Size	16.5(W) × 21.3(D) in (420 × 540 mm)



## Environmental Requirements

Item	Specification
Operating Temperature	32 ~ 104°F (0 ~ 40°C)
Humidity	Max. 90% RH non-condensing

## Power & Battery System

Item	Specification
Continuous Running Time (No Load)	80% → 30% : 16h
Continuous Running Time (44 lbs (20 kg) Load)	80% → 30% : 5h
Charging Time	30% → 80% : 0.5h
Battery Type	Li-Ion
Power Source	51.8V/20Ah