

What is DPC?

DPC is an optimized solution for E-Commerce with high volume and frequently change of small products environment in warehouse/distribution center. This solution helps to classify or divide picked items for each order into digital cart unit, considering order character and inventory location. In other words, DPC is a system that enhance short-time picking efficiency by providing the optimum work route.



This system combines a WebPad mounted on the picking cart and DPS/DAS, which enhances fast picking by using indicator for smooth product classification after picking.

- ✓ Reduce work time by optimized picking route guide
- ✓ Eliminate picking error by guiding classification location with electronic PI
- ✓ Simultaneous picking and checking
- ✓ Support productivity and index management function
- ✓ Voice guidance available for picking and classification information

DPC Working Process



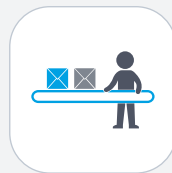
Receive work orders and prepare for work



Move to specified location



PI light up and pick products



Check products



Deliver



[DPC Application Example]

- 1 Receive picking information by using wireless communication, and move to specified location after setting all boxes required by system
- 2 Scan the barcode of product at specified location by using barcode scanner on the cart
- 3 PI of such picking box on the cart light up, and picking quantity display
- 4 Place the product in picking box as quantity as system required. Press complete button on PI and move to the next location
- 5 Complete picking at the last specified location, and move to inspection area
- 6 At the inspection area, scan tag on box and inspect products
- 7 Complete inspection and move to loading waiting area, then deliver

DPC Application



Manufacturing Plant

- Frequently change in items entails change in each part. This may bring the worker into confusion when items are changed
- DPC allows the operator to distribute specified parts and quantity in the right place by using only tablet computer and digital PI (no special training required)



Distribution Center

- Distribution center that handle a variety of product types may face a problem from having too many items. In this case, the right location checking in wide work area is important.
- DPC reduces work time to a minimum by setting work route, and eliminates unnecessary rework by using real-time checking function to minimize picking errors.

DPC Application Efficacy



Company Management

- Improve reasonable management planning and business analysis.
- Improve shipment capacity and creative work
- Improve picking management technology and competency



System

- Improve work efficiency through system management
- Overcome the limitation of manual work management



External Competitiveness

- Gain a competitive advantage from information technology
- Respond promptly to changes in business environment
- Increase profitability due to cost reduction
- Prevent from issues regarding product quality, error and delivery



Work Efficiency

- Proceed faster and more accurate work by minimizing manual work
- Take advantage of consistent and fast data management
- Fulfill thorough work process management
- Improve synergy efficacy due to individual performance management

ZINi i-DPC (Integration Digital Picking Cart System)



What is i-DPC?

An integrated picking cart system that minimizes work processes and error factors by providing the function of picking and checking at the same time. This product is developed based on the advantages and disadvantages of various operating functions of existing DPC.



Model Name	i-DPC	Work Capacity	12Box
Specification	1720(L) x 520(W) x 1500(H)	Picking Process	Complete picking by product weight checking and sensor detection.
Scan Process	Use fixed barcode scanner and hand-held scanner		
Utility	Operating DC12V 75AH lithium battery, 220v single phase 50 ~ 60Hz charge	PC	Windows OS-based Webpad Device
		Material	Steel
Performance	1) Target: B2B Picking 2) Application: Box Picking (for each customer) 3) Sorting Process: PI (quantity indicator) recognition 4) Processing Capacity (8 boxes/cart) *Work-based / Average 2.5 working rounds per hour → 100 cases available → 400 Order lines (Based on 4 Order lines/Box)		

ZINi e-DPC (Integration Digital Picking Cart System)



What is e-DPC?

An integrated picking cart system that simply pick and proceed multiple and small quantity items by using sensor without PI (Picking Indicator) installed.



Model Name	e-DPC	Work Capacity	Max. 40 boxes
Specification	1830(L) x 520(W) x 1500(H)	Picking Process	Complete picking by product weight checking and sensor detection.
Scan Process	Use fixed barcode scanner and hand-held scanner		
Utility	Operating DC12V 60AH lithium battery, 220v single phase 50 ~ 60Hz charge	PC	Windows OS-based Webpad Device
		Material	Steel
Performance	1) Target: B2C Picking 2) Application: Picking by desired quantity 3) Sorting Process: Sensor detection / LED recognition 4) Processing Capacity (40 boxes/cart) *Work-based / Average 2.5 working rounds per hour → 100 cases available → 400 Order lines (Based on 4 Order lines/Box)		