ALP

E-commerce Hub

Project Scope

- Order fulfillment center for small and medium-sized enterprises

- Storage capacity:
  1,500 AGV shelves for over 70,000 locations in picking face

- Outbound capacity:
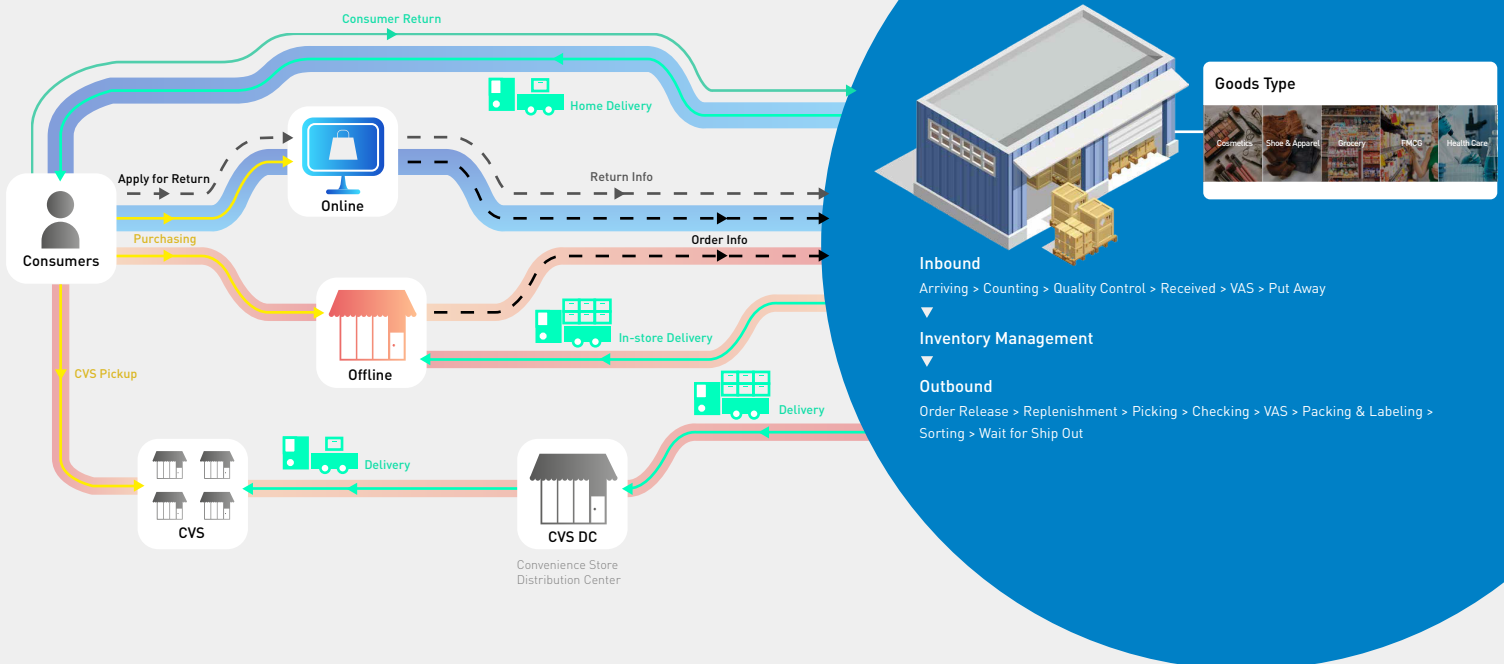 15,000 orders per day with 16 handling hours

Equipment Integrated

- Good-to-person AGV (over 100 robots)

- Inbound dimension measuring machine

- Put-to-light order sorting system with 1 of picking, checking, and packing station (customized)

- Outbound packing line with conveyor and sorter

System Integrated

Clients' ERP

WMS

WES, WCS

VIS

The Complex Journey of Omni-channel Fulfillment

Consumer Return

Home Delivery

Apply for Return

Return Info

Consumers

Purchasing

Order Info

Online

CVS Pickup

In-store Delivery

Offline

Delivery

CVS

Delivery

CVS DC

Convenience Store
Distribution Center

Goods Type

Cosmetics | Shoe & Apparel | Grocery | FMCG | Health Care

Inbound
Arriving > Counting > Quality Control > Received > VAS > Put Away
▼
Inventory Management
▼
Outbound
Order Release > Replenishment > Picking > Checking > VAS > Packing & Labeling > Sorting > Wait for Ship Out

It's Complex & Fast

Automation & Robotics

A warehouse equipped with automation & robotics can handle the complexity of omnichannel while being fast and accurate. However, it is a capital-intensive business usually operated by those biggest players in the market, and most SMEs cannot enjoy the latest logis - tics technology and services.

ALP is how
We are democratizing new logistics technology as warehouse auto - mation & robotics should be an approachable resource used by everyone. Since 2017, ALP has delivered over $36 million USD auto - mated projects, and another $95 million USD on the pipeline.

- Automated storage and retrieval systems (AS/RS)
- Pallet-based Shuttle System
- Good-to-person AGV System
- Moving System With Conveyor And Sorter

Up to **3x** labor costs
than traditional retailers ▶

Fast Facts
/ Consumers expect high convenience & excellent service
/ B2B/2C handling processes + different product types & sizes
/ Wide range of SKUs + More touchpoints than traditional retail

The Current Solution
Hire More Workers

There's Little Information Transparency

Non-realtime & inaccurate data
leading to **operational issues** ▶

Fast Facts
/ Information flows are generated from multiple channels
/ Multiple IT systems, all speaking different languages

The Current Solution
Excel DIY

Manage Through
Information Technology

Fragmentation and delays to insight mean most clients struggle to get a holistic view throughout the fulfillment process. Therefore, the information technology capability should keep up-to-date to cope with the ever-changing market.

ALP is how
We build our information technology capability in-house, which means that we can keep optimizing the technology solutions, making warehouse operations smarter.

- Experienced in multi-channel connection with clients and e-commerce platforms
- Experienced in connecting to carriers' transport systems
- KryptOS - the warehouse operation system powered by ALP in-house IT team

The Volume & Growth Are Unpredictable

Support Business Growth with
Scalable Service

E-commerce is a growing business that requires more flexibility for its warehouse fulfillment. A flexible omnichannel fulfillment means offering scalable service and cost-effective pricing at the same time.

ALP is how
With ALP's logistics network, our clients can enjoy high flexibility with scalable service and cost-effective pricing, benefiting from the economies of scale.

- Co-sharing Model - shared capacity to absorb peak demands
- Paying On-demand - pay as you used

Up to **3.3x** additional costs
for uncertain future growth ▶

Fast Facts
/ In short-term, the imbalance between peak and offpeak
/ In the long-term, "growth projection" is a risk
        -additional cost and waste of space for future growth
        -most clients are paying more for the uncertain future

The Current Solution
Paying More For Future Need