

CASE STUDY



Streamlining Parts Picking for American Honda's Distribution Network

As Honda's distribution operations expanded, the need for a more efficient parts-picking system became clear. A high-capacity solution was essential to streamline handling and increase order accuracy across the facility.

The Client

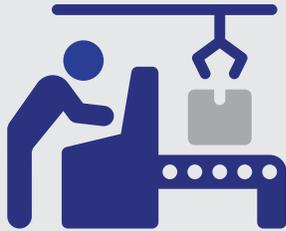
American Honda, one of the world's leading automotive manufacturers, has a robust distribution network to support its extensive vehicle lineup and parts inventory. Known for its commitment to quality and innovation, Honda required a solution that could keep up with its high standards and large-scale operations.

HONDA

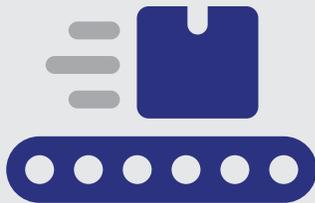
Results Snapshot



**Enhanced
order accuracy**



**Increased
picking speed**



**Improved workflow
for parts handling**

THE CHALLENGE

With increasing demand for parts distribution, American Honda needed a system capable of processing a high volume of SKUs—totaling 110,000—quickly and accurately. Managing the diverse and complex parts inventory in a fast-paced environment required a reliable, scalable solution that could handle growth in both volume and variety.

RESULTS

LD Systems implemented a fully integrated mezzanine conveyor system with sortation for Honda's parts-picking facility. This system greatly enhanced operational efficiency, improving picking speed, accuracy, and throughput while creating a streamlined workflow to support Honda's demand for high-quality, reliable service.

THE SOLUTION

01



Operations Review

LD Systems conducted a thorough analysis of Honda's existing parts-picking processes, identifying key areas for improving speed and efficiency. This review informed the custom design, aligning with Honda's operational goals.

02



Layout and Design

The layout incorporated a mezzanine structure to increase storage and picking space without expanding the facility footprint. This design provided Honda with a multi-level system that optimized space and improved access to high-demand parts.

03



Equipment Selection and Installation

LD Systems selected specialized conveyors and sorting equipment to facilitate seamless parts picking and handling. The installation was carefully planned to integrate with Honda's current operations, enhancing throughput and reducing manual effort.

04



Project Management

Every phase was managed by LD Systems to ensure the project was completed on time and within scope. The project management team coordinated resources and minimized disruptions, allowing Honda to transition smoothly to the new system.

DETAILS AND EQUIPMENT

LD Systems designed an advanced parts-picking mezzanine conveyor with sortation, optimizing Honda's 3PL capacity. The system was custom-built to improve workflow, with dedicated picking zones, automated conveyors, and a high-speed sorter for accurate order fulfillment. The strategic layout enabled a continuous flow from picking to shipping, enhancing operational efficiency.

Storage Solutions and Strategy

LD Systems implemented a range of advanced storage solutions to maximize efficiency:

Mezzanine: A multi-level structure to expand storage capacity without increasing the facility footprint.

Steel Shelving: Durable shelving for organized, accessible storage of smaller parts.

Pallet Rack: Standard racking for bulk storage, ensuring efficient access and retrieval.

Specialized Pallet Rack: Custom racking to accommodate unique parts storage needs, enhancing flexibility and inventory management.



Material Handling and Conveyor Systems

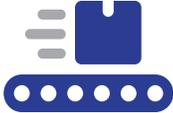
LD Systems implemented an efficient conveyor system to streamline Honda's parts-picking and sorting processes, incorporating:

Belt Conveyors: Reliable transport for a variety of parts sizes and weights.

Line Shaft Transport: Allows smooth movement between picking, packing, and shipping areas.

Accumulation Conveyors: Temporarily hold items to optimize flow and prevent bottlenecks.

Sortation Conveyors: Direct parts to specific zones, enhancing sorting precision and order accuracy.





HONDA

CONCLUSION

With LD Systems' integrated solution, American Honda's parts distribution facility now operates with enhanced efficiency and precision. The advanced mezzanine and conveyor system supports Honda's high-volume parts distribution, providing the accuracy and speed necessary to meet demand reliably.

The Results

- Enhanced order accuracy
- Increased picking speed
- Improved workflow for parts handling