



A guide to **Micro-Fulfillment**

Small and cost-effective warehousing that produces greater results

HOJ
INNOVATIONS

What is Micro-Fulfillment?

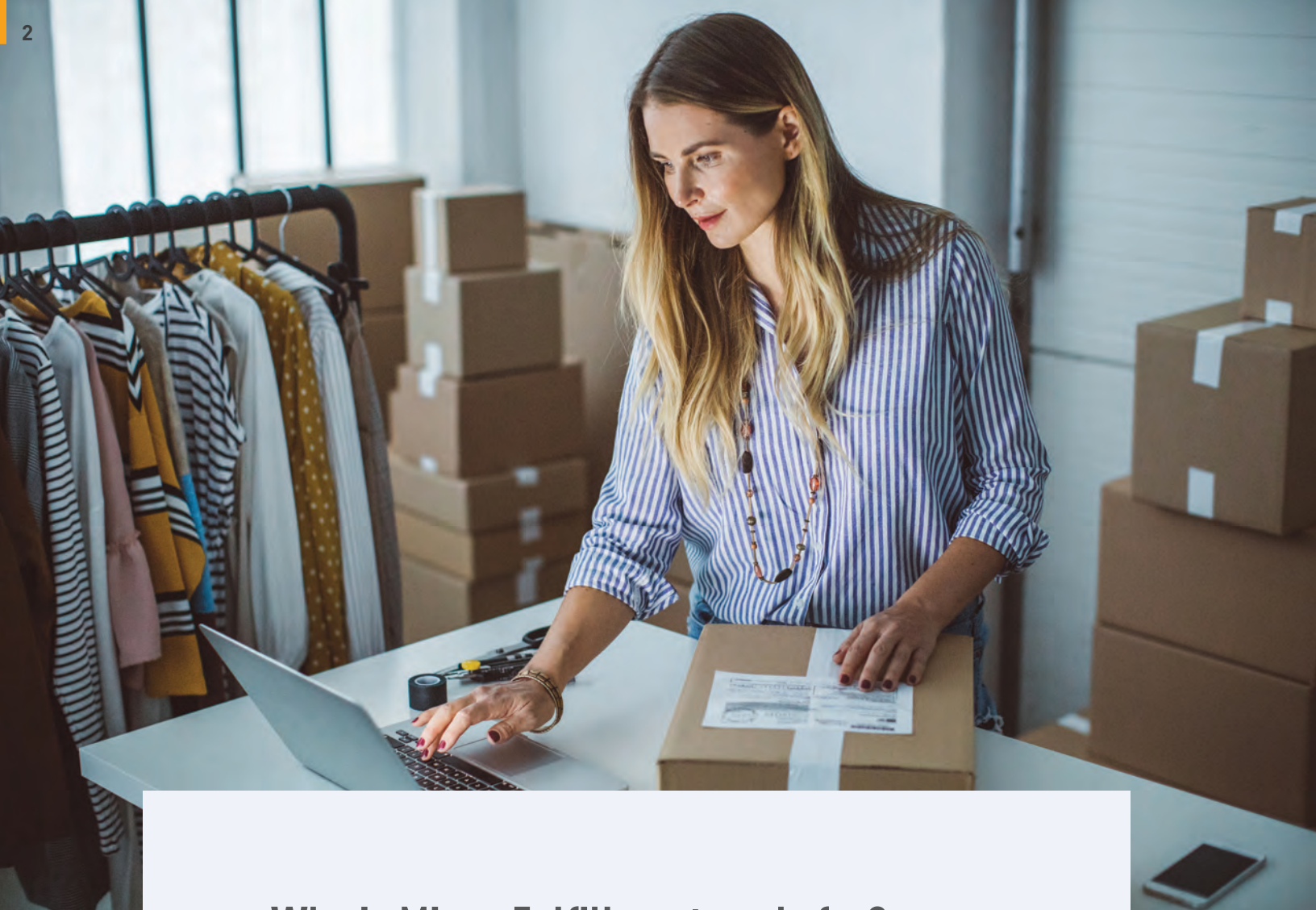
Micro-Fulfillment offers the perfect cost-effective system for retailers and emerging businesses to bring their products closer to the consumers it serves. It acts as a middle ground between a large DC and local delivery.

Micro-Fulfillment solutions rely on space optimization techniques to ensure maximized efficiency throughout the whole operation. Through innovative designs and a specialized warehouse software, fulfillment operations can be optimized while eliminating unnecessary space.

**OPTIMIZED EFFICIENCY
WHILE ELIMINATING
UNNECESSARY SPACE**



Micro-Fulfillment brings the efficiencies of big-box fulfillment into the reach of smaller businesses, and at a fraction of the cost. This stripped-down layout incorporates racking, boxes, pack stations, pick carts, and software technology to create the perfect and efficient fulfillment center. Whatever your operational requirements are, these micro-fulfillment solutions are entirely customizable to fit your specific needs.



Who is Micro-Fulfillment made for?

Micro-Fulfillment is the solution for emerging companies that are coming to market, such as Kickstarter projects, online and store-front boutiques, eCommerce operations, and those searching for a faster and more efficient solution.

How do I know if Micro-Fulfillment is right for me?

- + My existing space is full and I need a more organized operation
- + My efficiency is suffering due to unorganized inventory
- + My capital isn't enough to get me into a conventional DC or warehouse
- + I have a relatively small operation but am looking for speed and efficiency without a full size DC
- + I am a larger company that wants the ability to fulfill at a more efficient and rapid rate.

The Advantage of Micro-Fulfillment

The simplified micro-fulfillment design links on to a conventional warehouse system, but brings an automated twist to the operation. This gives you the flexibility and accuracy you need to fit right into your existing business model. Through carefully thought out plans and procedures, implementing a micro-fulfillment system can be done within weeks.



Cost-effective solution to allow quick fulfillment



Quick development and construction will allow you to get operations moving in a short amount of time



Consolidation of warehouse equipment and operations into small and effective fulfillment spaces



Estimate your operational needs and space requirements with our forecasting calculator



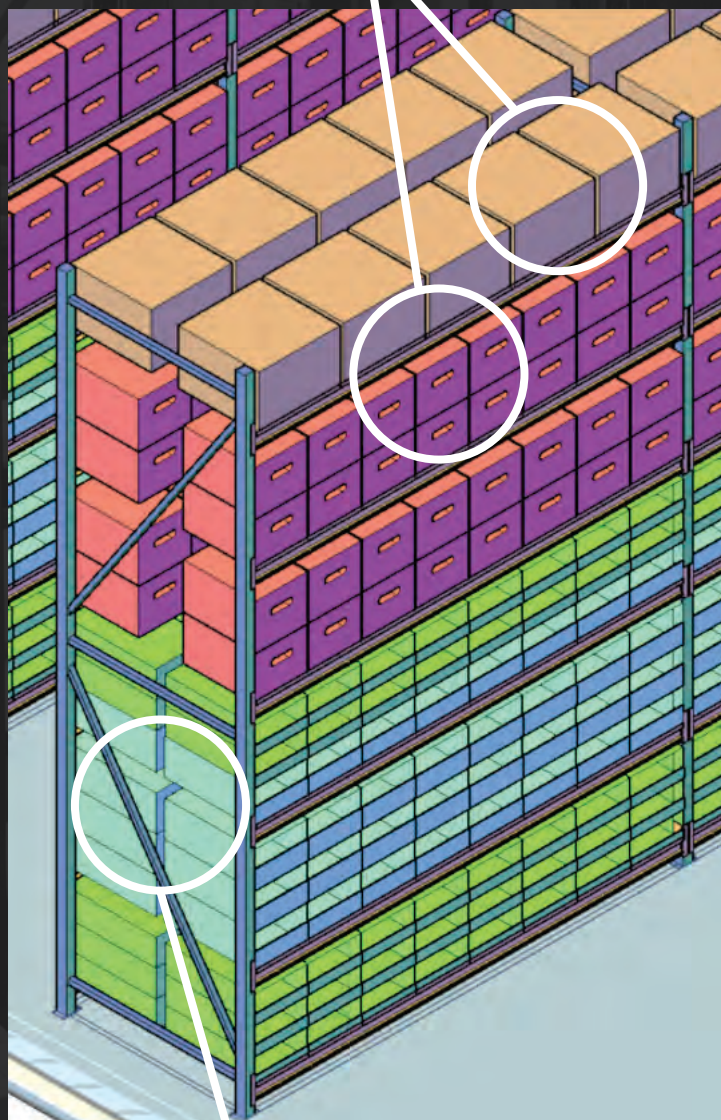
Easily manage your own fulfillment without investing in third party logistics

What does Micro-Fulfillment look like?



**Custom Storage Box or Standard Case
Storage for Bulk (Back Stock)**

Approx. 120 Cubic Feet Per Bay
(50 to 100 Cases/Boxes)



144 Picking Bins Per Bay
(72 per Side)

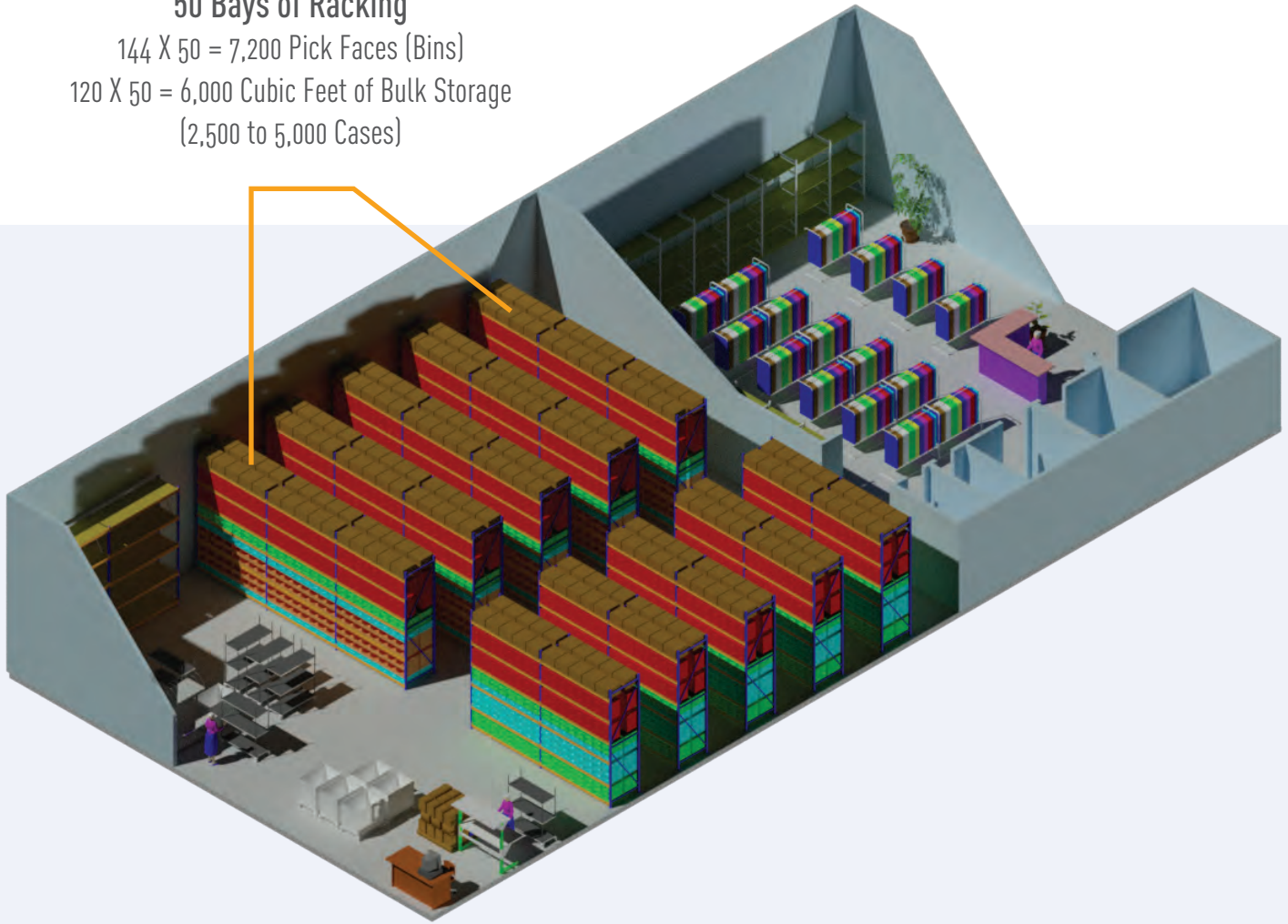
ACTUAL ENGINEERED SOLUTION

with Calculated Storage Capacity and Pick Rates for 3,000 sqft Warehouse

50 Bays of Racking

144 X 50 = 7,200 Pick Faces (Bins)

120 X 50 = 6,000 Cubic Feet of Bulk Storage
(2,500 to 5,000 Cases)



Order Pick Rate = 75 Per Hour

3 Packers = 225

6 Packers = 500

9 Packers = 675

Order Pack Rate = 100 Per Hour

2 Packers = 200

4 Packers = 400

6 Packers = 600

Crew Size – Orders per Hour

2 Packers / 3 Pickers = 200

4 Packers / 6 Pickers = 400

6 Packers / 9 Pickers = 600

Orders / Pieces per Day = 7 Hours

5 People = 1,400 / 4,200

10 People = 2,800 / 8,400

15 People = 4,200 / 12,600



The Software that Powers your Micro-Fulfillment System

WarehouseOS is a warehouse operating system that utilizes modern technology in a much simpler system. This system facilitates a more efficient inventory management and order fulfillment process. The use of mobile devices, simple ring scanners, and mobile apps is the perfect cost effective and optimized solution to run a micro-fulfillment facility.

Warehouse Operating System advantages in a Micro-Fulfillment Solution:

- + Training a new employee in a fraction of the time (usually under 30 minutes) it takes to train someone on a traditional WMS.
- + Dramatically decreasing picking and packing time (sometimes cut by half), even in warehouses that are already very efficient.
- + Lowering the cost per package shipped from the warehouse.
- + Competing globally at lower overall cost.
- + Eliminating mis-picks.
- + Having directed picking routes and always knowing exactly where your product is.
- + Getting rid of paper pick sheets.
- + Providing more data to help identify inefficiencies or problems, simplicity, and versatility that you need to be successful.

**HALF AS MANY
WORKERS**



**DOUBLE THE AMOUNT
OF ORDERS**





**REACH OUT TO US TODAY
FOR A FREE CONSULTATION**

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