

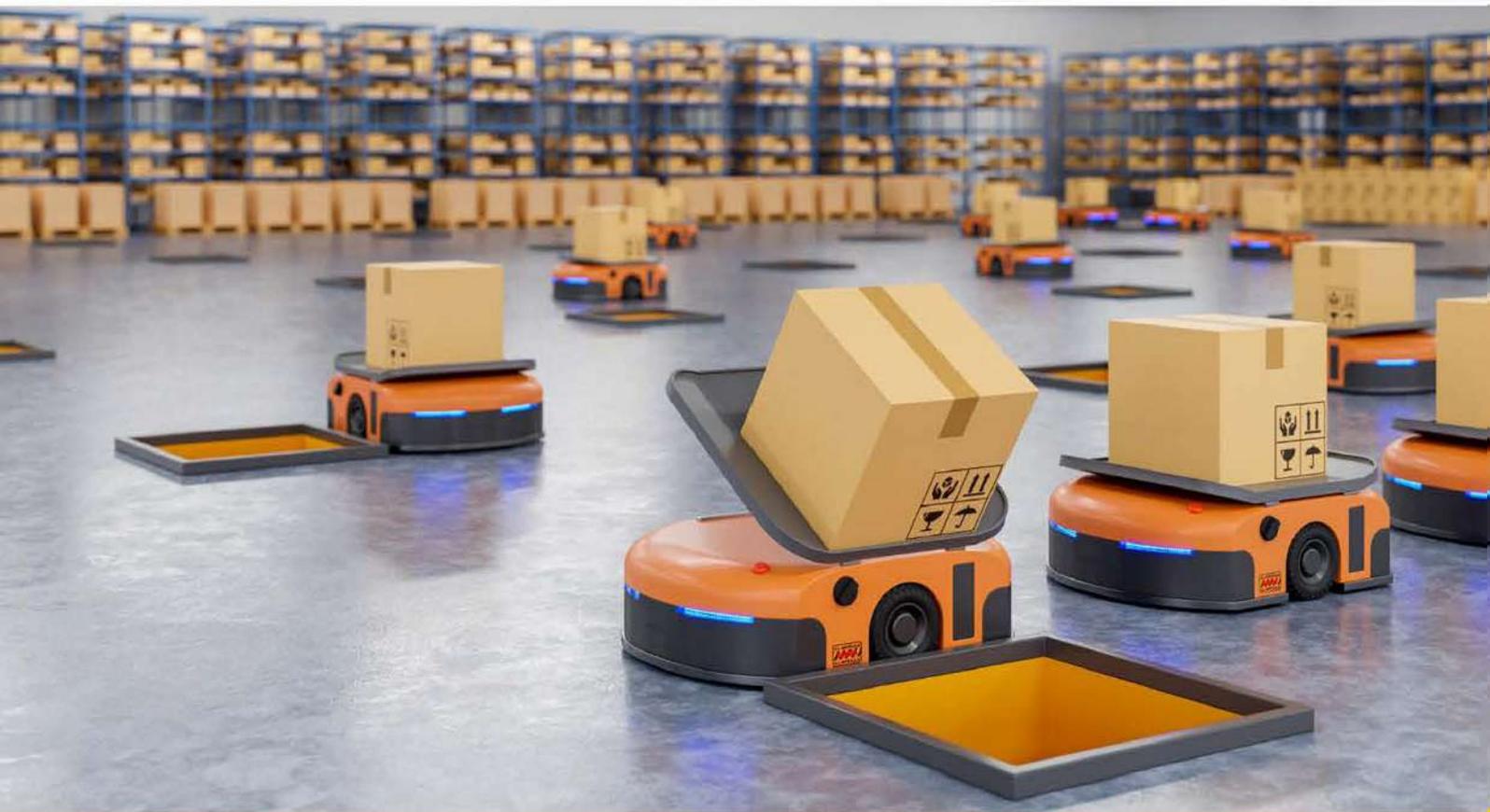


VisAI Labs

WHY WAREHOUSES AND DISTRIBUTION CENTERS SPEND ON AUTOMATED DIMENSIONING



visailabs



SUMMARY

According to a current poll, there is a monster demand for the growing digitalization platform. Most organizations are currently intending to revamp their sectors by renewing innovations to benefit their business growth. There is considerable hype in the eCommerce sector, where most warehouse proprietors are permitted to drive themselves to bring various progressions to their warehouses.

This article clarifies why the warehouses and distribution centers invest in automated dimensioning solutions.

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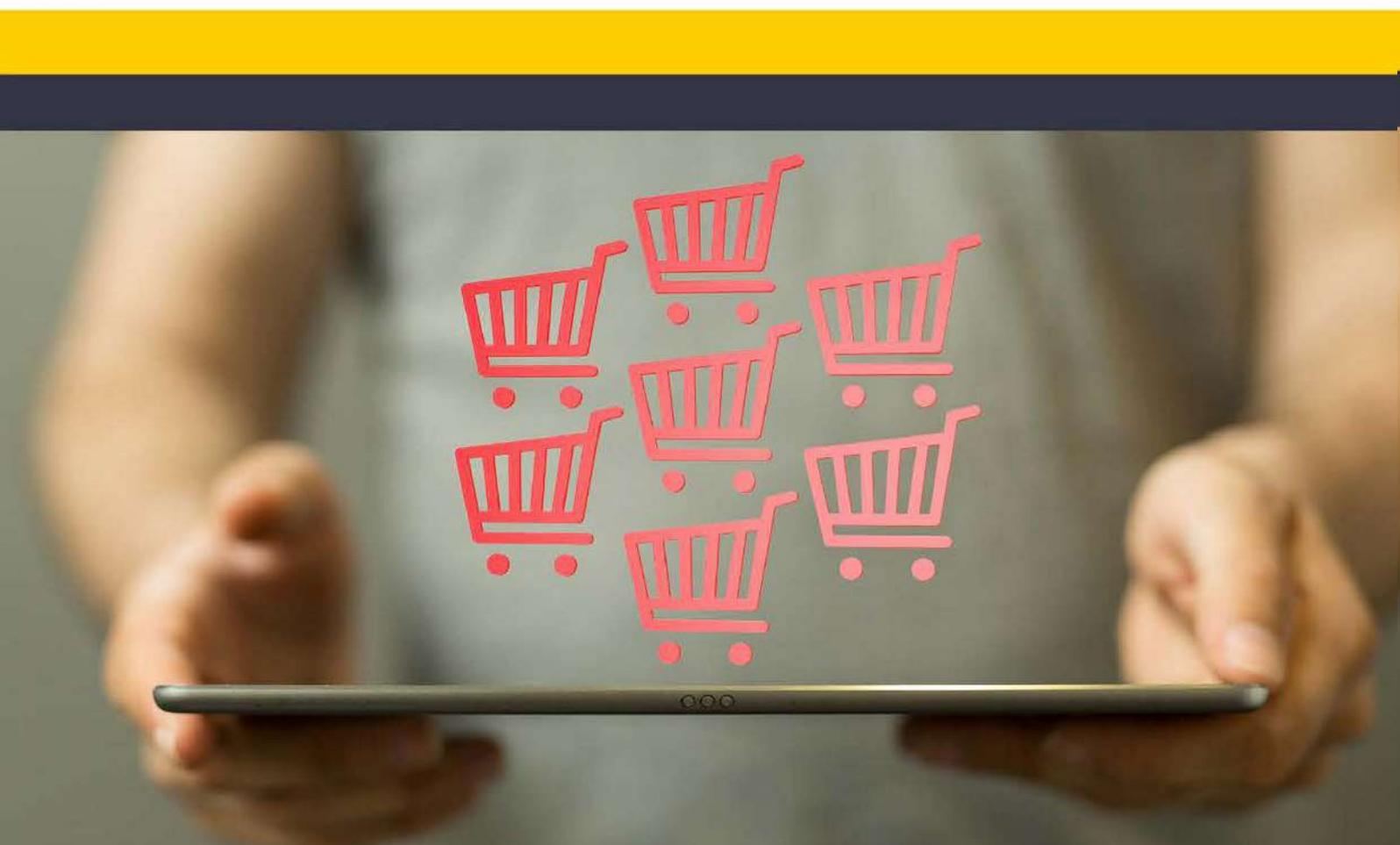
■ SCOPE OF eCOMMERCE

According to a current poll, there is a monster demand for the growing digitalization platform. Most organizations are currently intending to revamp their sectors by renewing innovations to benefit their business growth. There is considerable hype in the eCommerce sector, where most warehouse proprietors are permitted to drive themselves to bring various progressions to their warehouses.

This article clarifies why the warehouses and distribution centers invest in automated dimensioning solutions.

■ WHAT IS e-COMMERCE WAREHOUSING?

The term eCommerce warehousing refers to the stocking of myriad products before uploading them online. This process also includes moving products carefully, navigating and tracking the products' location, and managing the warehouse's inventory, equipment, safety, and movements.





THE SIGNIFICANT BENEFITS OF eCOMMERCE WAREHOUSING

Can Ship Products Fast:

Most online customers expect a fast shipping service; this sometimes can be a considerable barrier to the eCommerce warehouse owners, this is due to insufficient data of products. By systematizing the products in the right place would aid in faster door delivery.

Can Mitigate Unwanted Stress:

For most warehouse proprietors managing the inventory would be a notable burden. The better stock information status can lower stress, and we can enhance accuracy, track, and limit the loss of items in the warehouse.

Can Organize Adequately:

With a standardized warehouse, we can accomplish many things. By maintaining the warehouse, we can easily track and navigate items that are placed in-house.

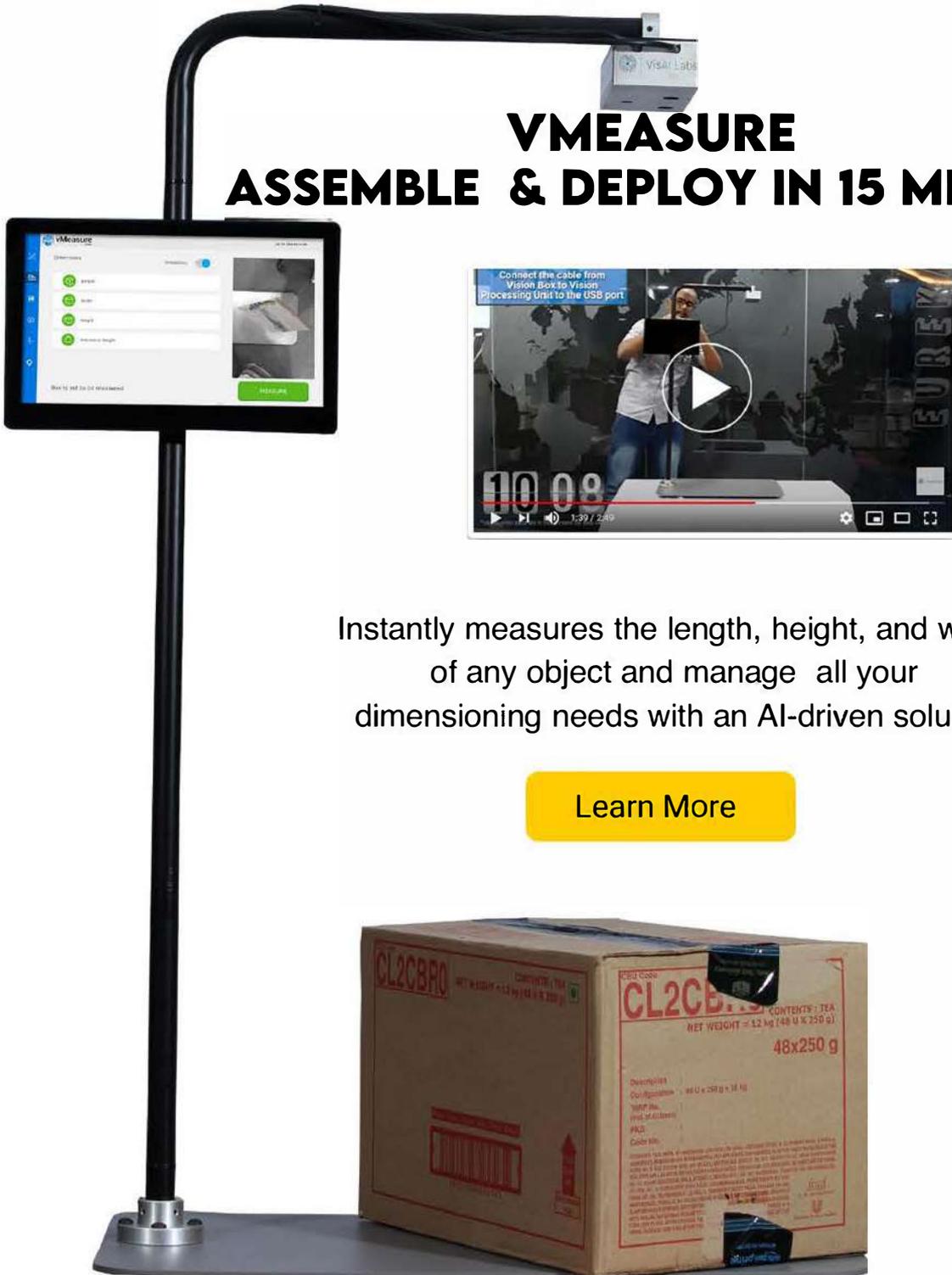
Time-Consuming:

For all of us, time is a crucial resource. By automating the warehouse, we can execute multiple tasks in a shorter time frame. The one good case of warehouse automation is automated dimensioner.





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■ ROLE OF A DISTRIBUTION CENTER

The distribution centers are often built based on the market demands, stock up more products, and distribute the products to the customers' doorstep in an estimated time frame.



■ BENEFITS OF DISTRIBUTION CENTERS



Customer Convenience:

Making a case for customer satisfaction is a brilliant way to gain consumers' faith and support. The distribution centers could fulfill customers' shopping experience to supply the products to customers' doorstep within the predicted period. Having the distribution center is much more advantageous for the clients, just as the proprietors.



Lessens The Overall Costs:

Cost is the rudimentary case for both clients and organizations. The distribution centers are specialized for their performance and efficient operations that taper pointless expenses. The dynamic distribution centers can construct an effective logistics network to pick up the products from the development center to deliver them to the distribution center since the manufacturing center doesn't have much storage facility..



Can Get Additional Information From The Resellers:

Resellers are the ones who have a direct connection with the customers as they give more information and insight to the distribution centers like how can promote the products to build up the sales and profit for the business vertical.



Scales Up Your Business:

One of the leading reasons most organizations opt for distribution centers is business development. Rather than hiring new associates to the centers, we can invest an average amount in technologies that minimize most manual works and shoot up business growth.



DIFFERENCE BETWEEN WAREHOUSE AND DISTRIBUTION CENTER

The warehouses are mainly for stockpiling many products, whilst the distribution centers perform additional functioning like order fulfillment, cross-docking (a logistics process where the supplier directly supplies the products to the customers), and packaging.

WHAT IS AN AUTOMATED DIMENSIONER?

Automated dimensioners are smart equipment chosen by the various warehouse industries to capture the dimensions such as length, breadth, height, and width of the parcels/packages of varied shapes. These dimensioners are integrated to measure other specifics like weight, capture the packages' and barcode scanners' picture to navigate the parcels/packages' locations.

There are two types of dimensioning solutions

1. Pallet Dimensioners
2. Parcel Dimensioners.

Warehouse sectors utilize Pallet dimensioners to measure the dimensional data of huge bundles, pallets, and freights in less than a second, whereas the parcel dimensioners are helpful to gauge the dimensional data of small boxes.

WHY WAREHOUSE AND DISTRIBUTION CENTERS REQUIRE AUTOMATED DIMENSIONERS?

Automation has provided a long way to meet the various market needs that incorporate space-saving and improved warehouse productivity. Centering the fact, the demand for the automated dimensioner solution has been in a higher trend as they do various tasks together in a shorter timeframe. So this is one of the primary rationales why significant warehouse and logistics providers pick the automated dimensioners to their verticals.

DID YOU KNOW?

By using Camera enabled Automated dimensioning solutions you can use bolt on AI applications for broken box detection or package optimization without additional investment?

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BENEFITS OF AUTOMATED DIMENSIONING SOLUTION

Increased Accuracy:

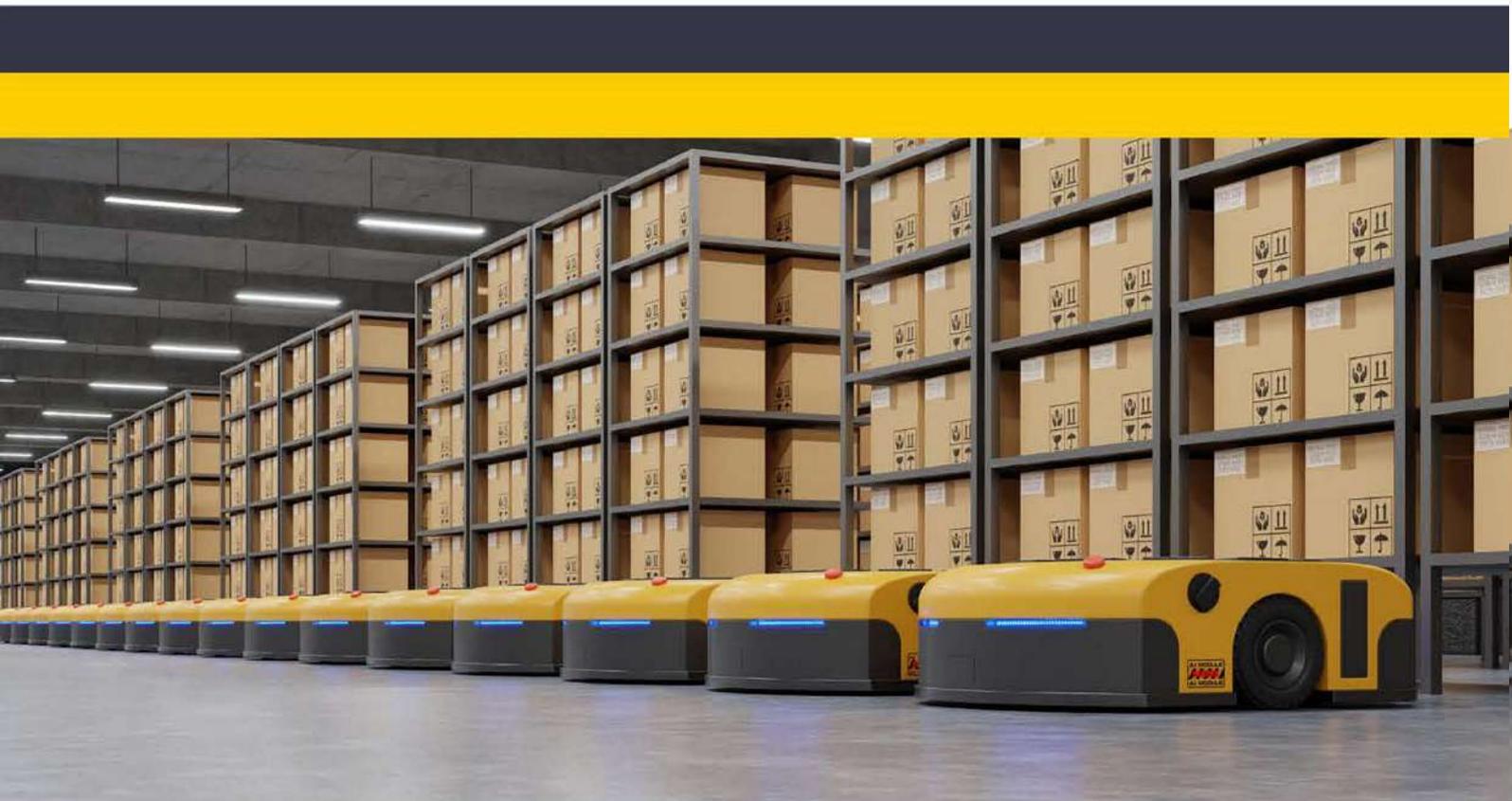
most of the warehouse and logistics providers renew to automation due to precision. By deploying the right automated dimensioners, we can eliminate the inaccurate dimensional measurements. The accurate details permit both the patrons and industry proprietors not to exceed the financial expenses.

Enhanced Space Optimization:

space is the heart of the warehouse. We can evaluate the packages' dimensional information; the dimensioners help determine the required space amount to stow the vast amount of parcels and pallets. With the better insight of enhanced space, we can in-stock a maximum number of products in the warehouse.

Reduces Human Errors:

Human blunders are most prevalent in all the industry vertical, but it is not acceptable all the time. Automation can ease out human errors and can provide precise information. With the right automated dimensioning solution, we can generate the parcels' exact dimensional measurements that aid unnecessary shipping tariffs.





Uplift Productivity:

the most crucial perk that comes into all of us mind about automation is potency. At present, most warehouse owners focus on this aspect to shove the working framework in the warehouse and logistics ecosystem. Each warehouse associate does particular jobs like measuring and gauging the parcel and recording the data, which is a relatively time-consuming method. The dimensioning can capture the product's image, reckons the dimensional details all in one go, and make all our lives simpler.

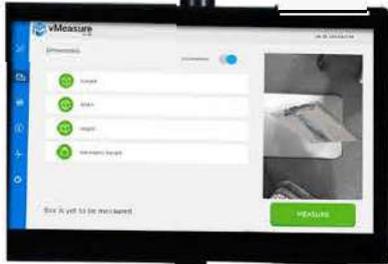


Reduces Pointless Shipping Costs:

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VMEASURE PARCEL PRO S100 100 PARCEL IN 15 MINUTES INCLUDING LOADING & UNLOADING TIME



Instantly measures the length, height, and width of any object and manage all your dimensioning needs with an AI-driven solution

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WHAT TYPE OF BUSINESS VERTICALS GET BEFITTED BY THE AUTOMATED DIMENSIONING SOLUTION?

For the reader of this essay, it is one of the familiar doubts. Yeah, we have an intelligent response!

Either small-scale or large-scale, it doesn't matter if your company needs to calibrate the dimensional info of the pallets and parcels for space storage; you can espouse the automated dimensional solutionbrush up efficiency and provide the parcel timeline for your customers.

HOW CAN WE INCREASE WAREHOUSE OPERATION TO BOOST QUICK DELIVERY?

Once the online shoppers decide to purchase the product, they instantly expect their product/ item in a brief period. There involves a lot of backend operation support to ensure successful shipping tasks. Some of them include:

Inventory Visibility:

According to the warehouse management framework, we may get most of the online requests, but without a proper inventory system, the warehouse owners couldn't accomplish fruitful shopping. The transparent inventory aid to track the send and received orders can also follow most warehouse inventory information.

Keeping The Warehouse Tidy:

Rather than expanding the warehouse, it would be brilliant once space has been kept slick. By clearing the warehouse squanders, we can save enough space to store products, which often lessens the search time and gears the last-mile conveyance.

Deploying A Suitable Technology:

this is a phase where most warehouse and distribution centers spend their time choosing appropriate equipment/technology for their vertical. By picking the right technology, we can stimulate productivity, which enables a quick conveyance.

DID YOU KNOW?

Logistics Software Solution providers incorporate Automated dimensioning and edge AI into their solutions to improve ware house productivity

[know More](#)



IN WHAT WAY THE AUTOMATION HELPS WAREHOUSE AND DISTRIBUTION CENTERS?

Below are the listicles that clarify how automation aid warehouse and distribution centers.



Collects Relevant Data:

The very first phase of automation is the data collection process. The traditional data collection process relies on handwritten notes or a manual data-entry process. By empowering a digital database, the pieces of information are entered in the spreadsheet or a database, which can then be used for any other purposes.



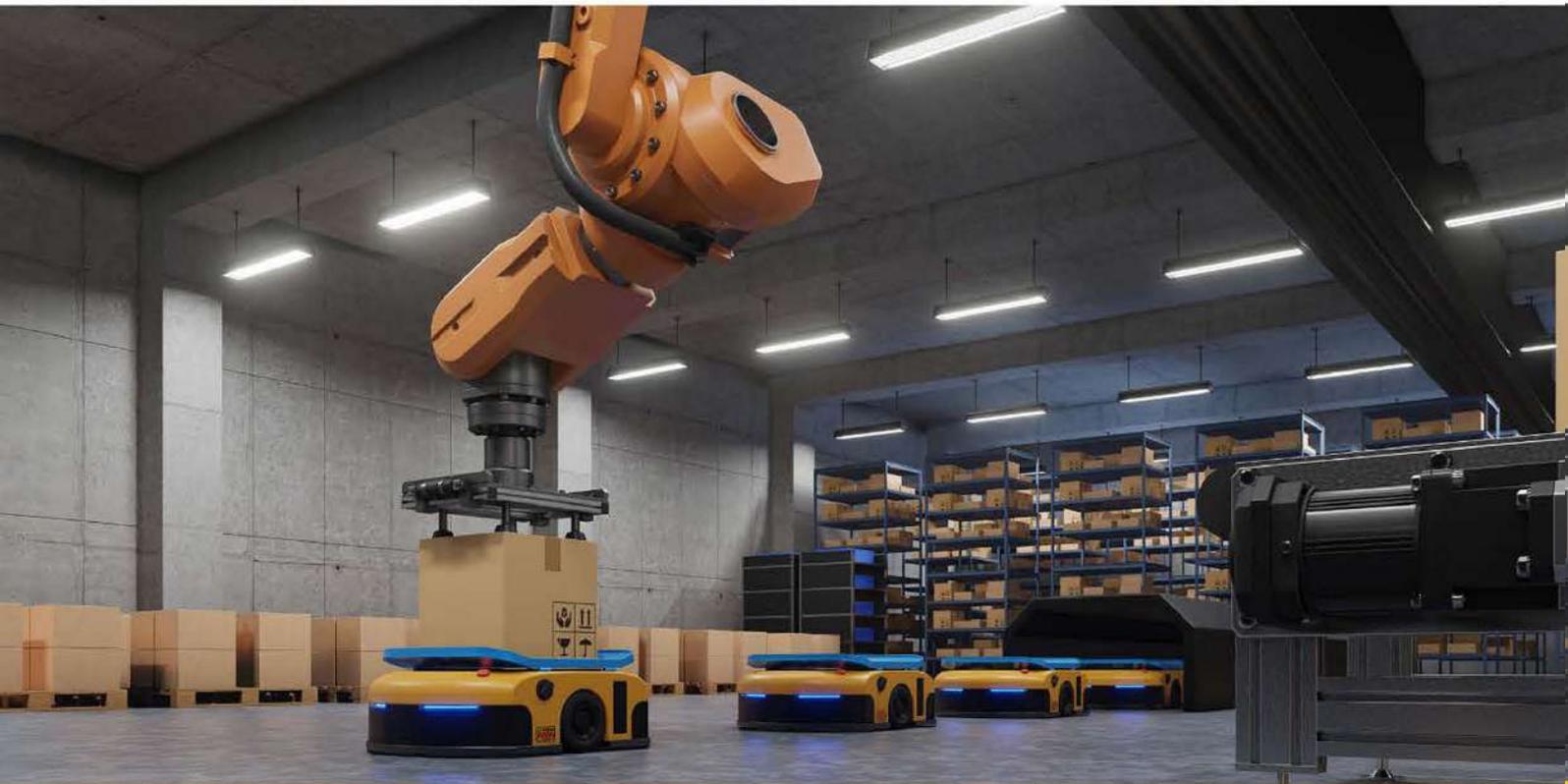
Can Gain Better Inventory Control:

Maintaining inventory is usually a herculean task that involves many repetitive processes. Automation helps cut down most of the iterative tasks that consume more time. Most industries have currently imported software applications to manage most monotonous works in the warehouse and distribution centers.

Below are the benefits of empowering software applications for better inventory control include:

- Polish up inventory precision
- Amplifies order fulfillment process
- Maintains ideal stock levels
- Reduced human goofs





Deploying New Solutions And Technology To Turn Up Operations:

There is much manual effort before automation for each cycle, such as picking, sorting, packaging, recording the inventory data, dimensioning the parcels, and some more. By deploying the right solution, such as automated dimensioning solutions, drones, and arm robots can limit manual endeavors and warehouse potency proficiently.

Below are some of the automation technologies deployed in the warehouse and distribution centers to elevate production:



Automated Dimensioning Solution:

It is a high-level innovation deployed in the warehouse and distribution centers to gauge and quantify the height, length, breadth, height, width, and weight of the parcels.



Drones:

Drones are another intelligent automation deployed in the warehouse to perform diverse operations like inspecting the irregularities, surveillance, to track the in-house product subtleties and its location.



Conveyors:

a piece of equipment used in warehouses and distribution centers to move product from one location to another internally before shipping the packages. Rather than moving things physically, the conveyors help to lessen the movement time and evaporates labor effort.

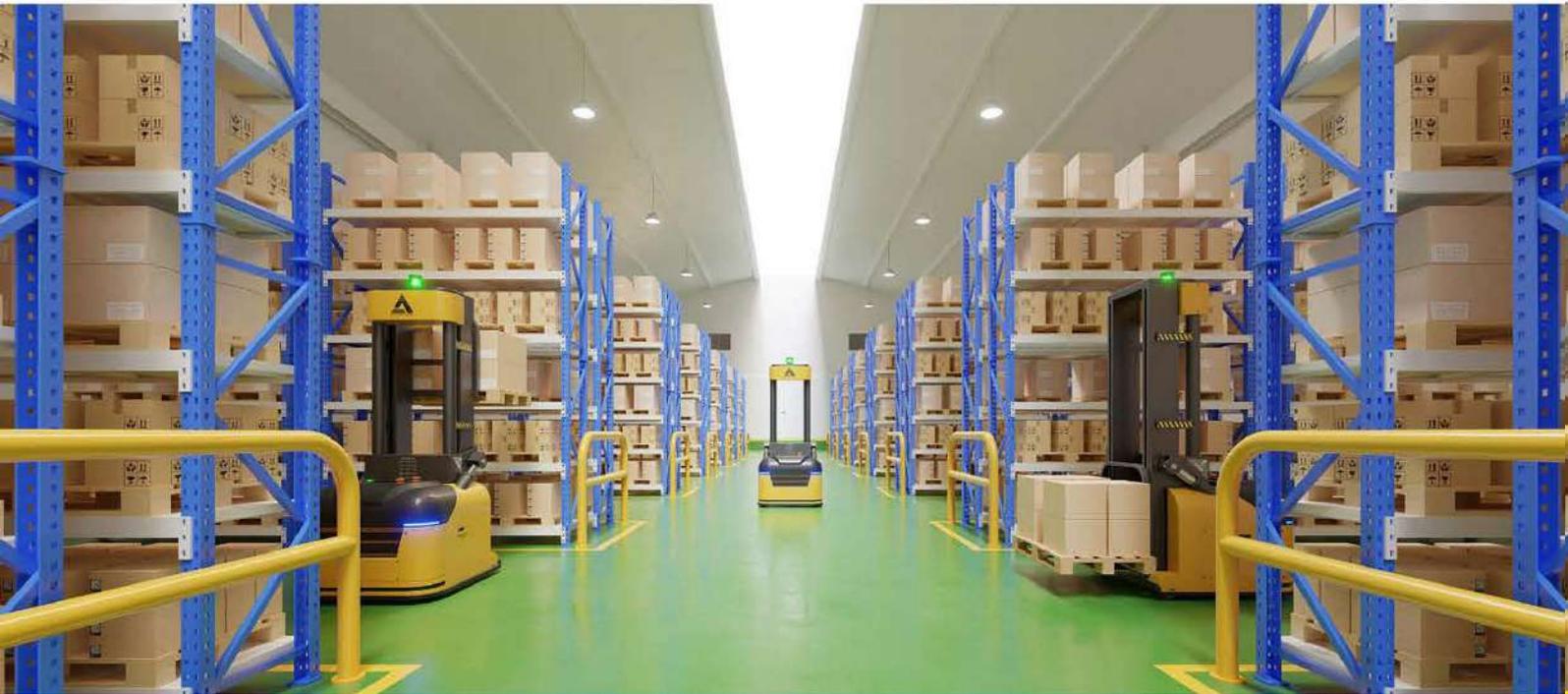


Lifting And Packaging Equipment:

The Lifting equipment assists in streamlining transportation and storage of goods; a portion of lifting equipment includes forklifts, hand trucks, pallet jacks, and cranes. The packaging equipment aid to wrap a product or designing a container to provide safety and handiness.



BOTTOM LINE



To sustain and thrive among the increasing competition and market pressure, the warehouse and distribution centers should invest in automation technologies. The savvy warehouse and distribution centers may appear to be a disruptive force now, yet it might become an indispensable standard in forthcoming years.

**DID YOU
KNOW?**

**Automated dimensioning solutions built on
Stereo camera tech are faster and more
accurate than other types of dimensioning systems**

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CHECK OUT THE COMPUTER VISION ENABLED AUTOMATED DIMENSIONING SYSTEM FOR WAREHOUSES AND ORDER FULFILLMENT CENTERS



Minimum Dimensioning: 10x10x10 cm



Maximum Dimensioning: 50x40x30 cm



Accuracy

+/- 5 mm for cubes and cuboids

+/- 10 mm for non-cuboidal shapes

Dimension:



Cubes



Cuboids



Polybags



Tubes



Irregular shapes

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