

ADD A WHOLE NEW DIMENSION TO YOUR WAREHOUSE



Cubiscan® cubing and weighing systems from Quantronix get you the information you need to turn your warehouse or distribution center into a world class operation

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Storage and shipment PLANNING

COMPANY NAME: Dollar General

HEADQUARTERS: Goodlettsville, TN

**LOCATION(S) WHERE QUANTRONIX
PRODUCT IN USE:** Seven distribution centers

PRODUCT LINE: Everything from small, single-selling units to large non-conveyable cartons

QUANTRONIX PRODUCT USED: CubiScan® 100

INSTALLATION DATE: Since 1994

CUBISCAN APPLICATIONS:

Warehouse Management System applications
Pallet stacking configuration
Storage planning
Shipping planning

BENEFITS ACHIEVED:

"When product is received into the building, it is weighed and measured using the CubiScan® 100. If the measurements are logical, the results are uploaded to our WMS. Through excellent support from Quantronix, we have been able to interface the CubiScan® with other software packages, enabling us to determine the optimal pallet configuration and also upload the data to other software systems. All in all, the CubiScan® technology has been very helpful in helping us plan storage, replenishment, shipping, and even facility configuration." — Allen Bullard, Senior Manager of Performance Improvement

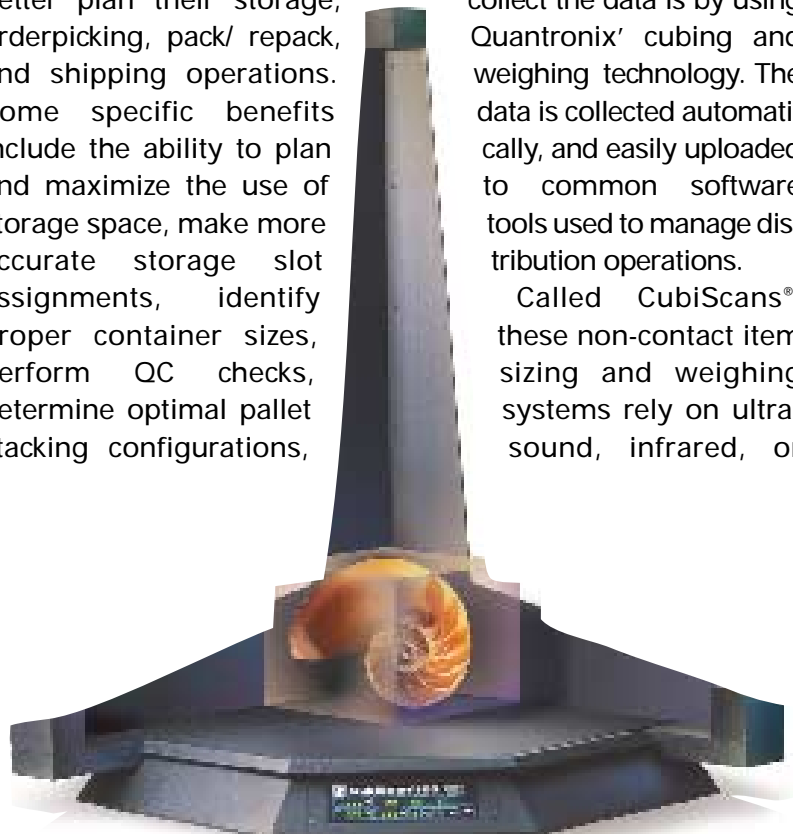
Every warehouse and distribution center manager knows that if they can't measure it, they can't manage it. Yet, many of them may not be aware of all the advantages of obtaining accurate, timely dimensional and weight information about their products and inventory.

Armed with this product data, companies are able to better plan their storage, orderpicking, pack/ repack, and shipping operations. Some specific benefits include the ability to plan and maximize the use of storage space, make more accurate storage slot assignments, identify proper container sizes, perform QC checks, determine optimal pallet stacking configurations,

and cube out trailers. In short, companies that have access to this kind of product data gain better control over their operations — all the way from receiving through to shipping.

Product weight and dimension information could be gathered manually, using a ruler and a scale. But this task is time-consuming and prone to errors. More and more companies are discovering that a better way to collect the data is by using Quantronix' cubing and weighing technology. The data is collected automatically, and easily uploaded to common software tools used to manage distribution operations.

Called CubiScans®, these non-contact item sizing and weighing systems rely on ultrasound, infrared, or





About Quantronix

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FOUNDED: 1987

PRODUCTS:

Quantronix offers a full-line of high-performance, non-contact dimensioning and weighing systems called CubiScans®. Applications include storage planning and design, product slotting, pack/repack, in-line quality control, inventory management, load planning, load tracking, and manifesting.

laser technology to obtain accurate and timely length/width/height measurements of virtually any item that is cube-like in shape. Quantronix offers both static systems, including the popular CubiScan® 100, as well as in-line systems (CubiScan® 200 series) that are designed to measure products in motion.

Located at receiving, in-process or shipping areas, the CubiScan® system collects dimensional data and then electronically transfers it in real-time to a host system, PC, or WMS package.

In order to optimize a wide range of distribution activities, companies can choose to upload the data directly to their WMS system. Others may feed the information into additional software applications, including case packing, load/pallet

optimization, quality assurance, and tracking tools.

In whatever ways managers choose to use the data, the benefits are limitless. Listed below are just a few ways CubiScans® are helping top companies today streamline and improve the efficiency of their distribution operations:

TEN WAYS TO APPLY CUBISCAN IN YOUR OPERATION

- Calculation of volume-based shipping charges
- Freight manifesting and auditing
- In-line inspection and quality control
- Load planning and optimization
- Optimize storage density
- Order picking
- Order packing
- Repack
- Shipment planning
- Storage location planning and selection

Customer billing and freight PLANNING

COMPANY NAME: Purolator Courier, Ltd.

HEADQUARTERS: Mississauga, ON, Canada

LOCATION(S) WHERE QUANTRONIX PRODUCT IN USE: Toronto, Mississauga, Vaughan, Hamilton, Richmond, Montreal, Quebec City

PRODUCT LINE: Parcel courier

QUANTRONIX PRODUCT USED: Cubiscan® 200-TL

INSTALLATION DATE: Spring 2000 - present

CUBISCAN APPLICATIONS:

Dimensioning freight
Revenue recovery
Volume-based shipping charges

BENEFITS ACHIEVED:

"We are currently implementing the Cubiscan® 200-TL; a dimensioning product designed to work in a high-speed conveyor environment. This is the most accurate product we have tested and provides us with data on packages up to 5 ft X 4 ft X 3 ft; all while processing in a hands free environment at speeds of 240 fpm.

It is being interfaced with an in-motion weigh scale, scanning tunnel and spacing conveyors to enable us to capture vital dimension information for our billing system, while integrating with our tracking system, all without impeding our crucial throughput. We have installed them both in horizontal applications as well as on incline applications, all with a great deal of success." — Karen Orlandi, Project Leader — Industrial Engineering



Quantronix

MOST POPULAR

cubing and weighing

TECHNOLOGIES



CUBISCAN® 100

Quantronix' most popular system, the mobile CubiScan® 100 cubing and weighing system, is designed to work with WMS software and manifesting systems for storage location selection, order picking, repack, and shipment planning.



CUBISCAN® 200 -B

The CubiScan® 200-B is an in-line, integrated cubing/weighing system designed to measure and weigh items in motion using infrared technology. It is specifically used as a freight manifesting device to dim freight and determine volume based shipping charges and is also used as a revenue generating tool.



CUBISCAN® 200-TL

The CubiScan® 200-TL is an above the belt, in-line cubing system that employs laser and infrared technology to perform measurements of items in motion. One of the fastest and most flexible systems Quantronix offers, the CubiScan® 200-TL can be customized to meet the requirements of even the most demanding applications.



CUBISCAN® 200-XIR

The CubiScan® 200-XIR in-line cubing system employs infrared technology to measure products in motion and is compatible with warehouse management system software, facility layout, pallet stacking, manifesting, and loading planning optimization packages. It is ideally suited for applications that are budget-conscious.



Storage and orderpicking.

A CubiScan® is compatible with virtually any WMS package. On an ongoing basis, a WMS can use the data to perform fit tests for storage, replenishment, and picking. Product dimensional data from a CubiScan® also can be used to develop physical layouts that maximize the use of space in storage and picking areas, as well as to determine optimal storage slot assignments. In addition, the information can be used to determine inventory activity based on cube instead of velocity.

Pack/repack.

CubiScan® product data can be uploaded to a WMS or case packing software package in order to perform fit tests and achieve greater efficiency in product packing and repacking and determine optimal container sizes. Data can also be used in a QC mode for order checking and verification.

Receiving and shipping.

CubiScan® can be used at the receiving dock to verify dimensional information of incoming packages for storage location

assignments, as well as for possible rate adjustments. On the outgoing side, data is also available for shipping operations and is compatible with pallet optimization and load planning software, allowing both loads and trailers to be cubed-out. A CubiScan® can interface directly with bar code scanning technology for load tracking purposes, freight manifesting applications, and can calculate dimensional and weight based shipping charges automatically.

The bottom line? Using CubiScan® technology from Quantronix will impact yours, positively. In fact, companies who have installed CubiScan® systems have typically realized immediate cost savings — totaling in the millions of dollars in some cases — and an increase in productivity. Best of all, you'll find that the benefits continue to add up, inch by inch, as you use critical product dimensional and weight information to better manage your distribution operations.

To learn more about
Quantronix and how its products can help you increase the efficiency of your distribution operations, call 800-488-CUBE or visit www.cubiscan.com.