

Transport & Logistics

All the Measurements You Need



7 News

Avoid Breakdowns Prevention is Better than Cure

Plan your service budget, prevent breakdowns and ensure your equipment always runs efficiently with a dimensioning and barcode-reading system test report.

A new system health-check program helps to plan service budgets, prevent breakdowns and ensure that equipment is always running optimally. Two new test reports, one for dimensioning and one for barcode reading, check every aspect of performance and generates a health report.

Transport and logistic system specialists conduct a thorough test of your equipment, paying special attention to the most critical components. You then receive a detailed report that assesses the working condition of your systems. The report also includes service recommendations based on the results of the tests for measurement accuracy and overall performance. Follow the steps in the test reports to en-

sure continued uptime and performance and prolong the life of your dimensioning and barcode-reading systems. If you have multiple systems in one location, a complete site summary can be provided.

Cross-border business planning

For international companies, the global certificate is especially helpful. Regardless of where in the world you use METTLER TOLEDO systems, we use the same criteria to evaluate your equipment. The results can be uploaded to a global database from which we can extract country-wide or regional performance results for you to better understand your equipment and service or replacement opportunities. That information can be used to gain an understanding



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of your assets from both a global and local perspective. It can help you understand where and why breakdowns occur and where additional service may be needed.

Smart service for low cost of ownership

Smart service based on predictive maintenance, instead of routine or emergency service calls, decreases cost of ownership. The data generated by a test report is specific, detailed and ranked according to criticality. Over time, data can be consolidated to provide statistics about which sites have which service requirements, which parts are most critical and how to optimize maintenance and repair cycles.

During peak hours, weeks and seasons, system uptime becomes even more crucial.

Proactively planning a system test report identifies potential issues early so that service can be scheduled at your convenience.

Report documentation

The report generated after each test provides a clear, visual overview of the status of each system and its components. The certificate can be used as an official document during audits by Weights and Measures.

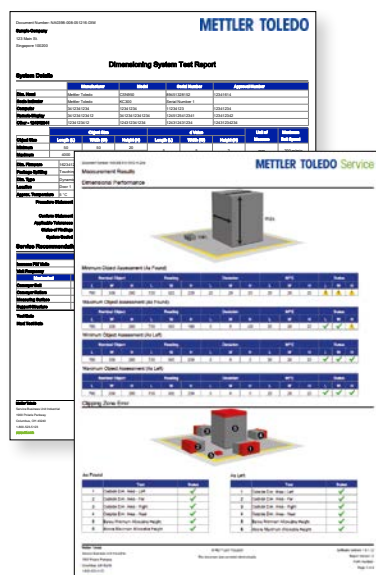
Maintain optimal performance

Dimensioning and weighing equipment lasts longer if it is maintained properly and there is a lot you can do to keep it in top condition. Make sure that the area around the equipment is clean. Collection of dirt and dust is one of the number one causes of inaccuracy in weighing

and measuring results. System performance can deteriorate over time. Trained technicians know where to look for wear, damage and debris that can affect system performance. Developing a scheduled maintenance program with an expert technician while your system is still new can keep it performing optimally and also increase its lifespan.

Prevention is always better than cure. Advance planning and assessment keeps you in control of the uptime of your equipment and the efficiency of your operation.

► www.mt.com/dim-cert-tl



Key benefits of the system test report

- Proactive, targeted service to ensure uptime
- Data intelligence for planning service and budgets
- Reduced risk of breakdown
- Confidence during Weights and Measures audits
- Continued compliance and high performance

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Maximize Profits By Ensuring System Uptime

System downtime is what every operations manager dreads. Have the right service agreement in place so that support, when needed, is always close to hand.

Preventive maintenance is just one of the services offered in our tailor-made Service Level Agreements (SLAs). These are designed to give you control over potential downtime and unbudgeted expense. Your tailored SLA can be as comprehensive as you need it to be, including availability of spare parts, labor, travel and guaranteed response time for repairs. Global SLAs help global transport providers to guarantee the required level of customer service across the globe.

Plan for uptime

Look for features which are designed to keep your system up and running, such as health monitoring and remote diagnostics. Health monitoring software monitors

the pulse of all components of your system so that if something goes wrong, an alert will be sent to the operator. Remote diagnostics give a service technician the chance to access the system remotely to identify and fix problems quickly.

When equipment fails, immediate action is required. There are different ways to ensure that if something goes wrong, downtime is kept to a minimum. High throughput operations should incorporate redundancy into the sorter system. This means that if a component, such as barcode reader fails, a back-up system can be deployed instead. Stocking key spare parts and having a four hour response time contract in place will ensure

the quickest replacement time. A comprehensive care offering will cover the cost of unplanned labor and spare parts.

At METTLER TOLEDO we are proud to have the widest service network in the industry, made up of skilled and experienced technicians. Our global footprint allows us to create service standards for global customers, wherever they are in the world.

► www.mt.com/service-tl

Keeping Up With China

Growing Volumes in Growing Markets

The China logistics market is growing at a rate of 20 percent each year. To meet increasing demand for transport, parcel carriers are investing heavily in automation. Their goal is to increase the speed of handling and to ensure high quality data for efficient logistics.

Even as the Chinese economy struggles to recover, the transport and logistics industry is growing rapidly. With a rise in domestic consumption and the boom in eCommerce, the need for fast and efficient transport in China is almost insatiable.

The international transport providers, such as Deutsche Post DHL and UPS, are no stranger to automation and strive for global standards in systems and processes. However, as the domestic market expands, it is the large, home-grown local carriers that are changing how they operate to keep up with constantly growing market demands.

Automatic and efficient

To cope with the increasing volumes, domestic carriers in China are investing in solutions to automate the conveying, identification, weighing, dimensioning and sorting of parcels. Depending on the throughput and level of automation required, there are different solutions available to automate both handling and the data-capture.

Revenue recovery awareness

In the past, such parcel express companies were focused above all on getting parcels from A to B. Today, there is a higher level of awareness of the po-

tential to recover revenue by automatically checking customer-declared weight and dimensions. More and more, companies are including dimensioning, weighing and scanning into their processes. By employing equipment for automatic re-weighing and re-dimensioning of parcels, any discrepancies between actual size and weight, and customer-declared data are discovered.

Technical solutions

For optimal efficiency on an automated conveyor line, a dynamic weighing, dimensioning and scanning (DWS) system is ideal. The system captures the dimen-





sions, weight and ID of each parcel as it moves along a conveyor. This eliminates the need for additional handling, as all data is captured in one process. The system can also provide sorting and tracking data that instructs the sorter to send the parcel to a specific destination.

Smaller operations won't have a fully automated line or advanced sorting system, but productivity can still be improved with automatic capture of data. Stand-alone, weighing and measuring solutions can be set up to run automatically during unloading or triggered by an operator using a hand-held barcode reader. The system then captures dimensions, weight and ID.

Chinese Growing Markets	
Share of global eCommerce	35%
2015 Online Sales	\$340 billion
2023 Online Shoppers	660 million

The global context

While the China transport and logistics market is taking its first steps towards automation, large transport providers in Europe and North America are seeking even higher levels of automation and efficiency. There the trend is towards larger sorting hubs that handle hundreds of thousands of parcels per day and require fast, fully automated systems using five- or six-sided barcode reading tunnels and high-speed dimensioning and weighing.

Meeting global market demands

METTLER TOLEDO offers a full range of solutions to automate the data-capture process. We offer solutions that provide everything from high-speed weighing and dimensioning to simple, easy-to-install solutions for first-time investors.

Introducing the TLX Basic

The new TLX Basic is a dimensioning, weighing and identification system designed to improve productivity in parcel-handling environments. The TLX Basic offers companies that are upgrad-

ing from manual or semi-automated handling a cost-effective solution that ensures data quality while reducing the time and expense of manual handling.

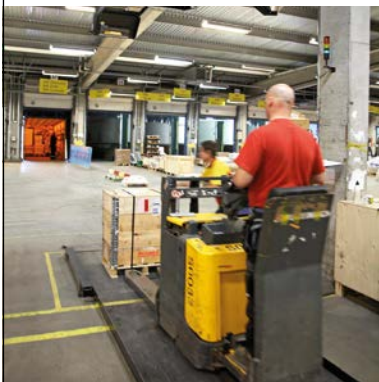
Local teams of transport and logistics experts are there to guide first-time users through the process to automate the process of parcel dimensioning, weighing identification.

► www.mt.com/TLX-tl

4 Trends to Support Your Profit In Freight & LTL

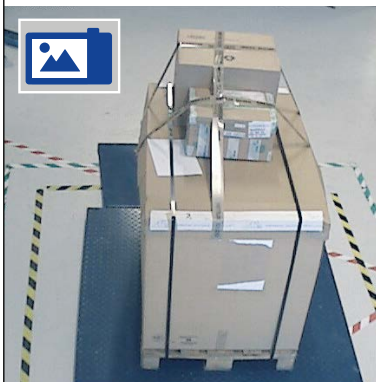
Volatile fuel costs, capital expenses and a driver shortage have left North American less-than-truckload (LTL) companies scrambling for ways to cut costs. Here are a few ways companies can counter growing expenses and stay profitable.

Profiling with Dimensioning Systems



By dimensioning pallets, freight companies can profile their customers to make sure the business relationship is profitable. By automatically measuring the freight from a customer over a period of a few months, the LTL carrier can profile what the customer is typically shipping and create a contract with the customer that is both fair and profitable.

Controlling Quality with Cameras



By taking a photo of freight, it is possible to see if and when damage occurred. This information can be used as an aid in damage claim communication. Adding cameras to a dimensioner, scale and barcode reader, used with the right software to manage data, LTL companies have all the information they need about a single shipment at their fingertips.

Mobile Dimensioning for On-the-Spot Invoice Adjustment



Mobile dimensioning offers the flexibility to check the dimensions of freight at any location. By supplying truck drivers with a hand-held dimensioning device, they can quickly check the customer declared data at pick-up. If measurements don't match, paperwork can be adjusted on the spot, eliminating the need to chase for back payments later on.



VFS120 Forklift Scale designed for heavy use in freight & LTL.

Weighing on the Move



Forklift scales save time and money by making weighing a one-step operation. By adding a scale to a forklift truck, freight handlers no longer need to transport loads to and from a floor scale. Forklift weighing is the quickest way to check a pallet's weight. Data is automatically transferred to a smart device and merged with dimensional and ID data.

Unbeatable New Forklift Scale

Low Cost of Ownership

Minimal maintenance, built to last

Rugged and Reliable

Keeps working when other scales break down

Designed for Safe Operation

High visibility window for safe loading & driving

Accuracy Over Time

Holds calibration for one year without adjustment

► www.mt.com/VFS120-tl

Reduce Labor Costs

Automate and Upgrade

The trend in the parcel and postal industry is for bigger hubs, faster speeds and higher levels of automation. Data-capture solutions that provide scalability and flexibility are required to fulfill increasingly demanding system-integration requirements.

Model		CSN110 ScanTape	CSN810 TableTop	TLX Basic with manual barcode reading
				
		Mobile Dimensioning for manual handling processes	Semi-Automatic, simple-to-integrate DWS	
Number of parcels		200 parcels/h	400 parcels/h	1.000 parcels/h
Time needed		18 sec/parcel	9 sec/parcel	3.6 sec/parcel
Number of operators		15 operators	8.5 operators	3 operators

The more automated the handling process, the less need there is for additional resources to manage your logistics operation. A smooth, organized traffic flow makes it possible to optimize capacity. As your company grows and transports larger volumes, an automated process makes it easy to handle increasing amounts of customer data while ensuring that parcels, pallets, or anything else you ship, doesn't have to remain in the terminal for long.

Decrease costly errors

Manual data entry is not only inefficient; it is error prone. By automating the measuring process you eliminate reading errors, entering wrong data, information getting lost or misinterpreted. By automating measurement and data transfer, data will always be accurate, repeatable, verifiable and legal for trade.

Improve customer service

How much does it cost to lose a customer? By measuring using automatic, certified equipment, your customers can be confident that the data is correct. This ensures not only that you get paid properly, but also that your customers receive correct invoices and are not overcharged. The number of missorts and damaged items are reduced and you are prepared with

TLX Basic
fully automatic



TLX
Advanced



XE Cargo +
Dimensioning



DualScale +
Dimensioning



Fully Automatic Flexible, customized, dynamic DWS

1.500 parcels/h

3.000 parcels/h

5.000 parcels/h

9.000 parcels/h

2.6 sec/parcel

1.2 sec/parcel

0.72 sec/parcel

0.4 sec/parcel

2 operators

no operators

no operators

no operators

accurate data in case of customer claims and disputes.

Control costs

There are two main ways in which automation in transport and logistics improves bottom line. The main profit generator is revenue recovery. Automatic verification of measurements makes sure you are paid properly for the cost of trans-

port. In manual-handling operations, this step is often skipped due to time pressure. Automation also saves cost by reducing man-hours required for handling, enabling better distribution of labour.

Analyze shipment data

Access to real-time data and the ability to retrieve shift data afterwards makes it possible to implement data-driven correc-

tive actions and plan for future improvements based on trends. For example, you may find out through data that a particular customer is using labels, which are not always read by your barcode reader. This allows you to take the corrective action of relabeling parcels from that particular customer, or agreeing with them on use of a different label.

► www.mt.com/logistics-competency-tl

12.5% Increased Read Rate

Differentiators that Improve Profit



Many dimensioners on the market today use the same technology. However, they differ in performance. One European parcel express company put two solutions to the test and discovered a significant difference in both read rate and accuracy.

A leading parcel-express company recently put the new CSN950 MultiHead dimensioner to the test. The system was set up in the production line behind a competitor dimensioner for a head-to-head comparison. The results showed two things:

1. No rejects

The company was having problems with its dimensioner not reading black and blue. As a consequence for this carrier, which handles a lot of parcels with black and blue wrapping, 3.5% of all parcels were rejected and sent to a manual handling station, affecting sorter throughput and efficiency.

During the test, the CSN950 MultiHead successfully measured every black and

blue object that passed underneath. No rejects meant no need for inefficient manual handling. In addition, the CSN950 MultiHead had less deviation in measurement accuracy than its competitor, which reported results at an average of 13 percent below actual volume. The CSN950 had a deviation of five percent on those difficult-to-read dark surfaces.

2. Revenue recovery on 9% more objects

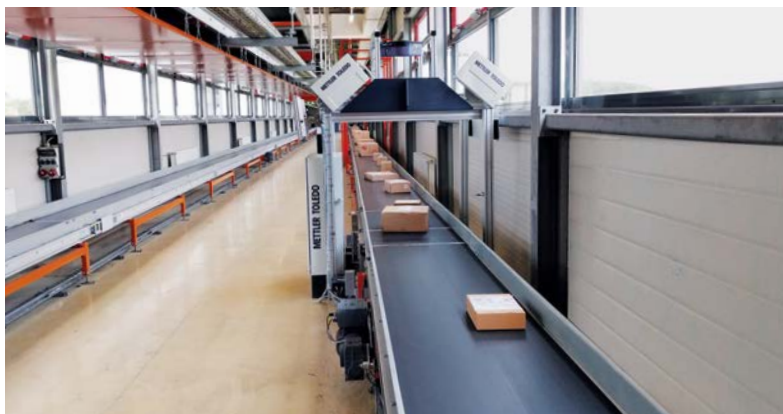
From a sample of 400,000 parcels, 9 percent were between 20 and 50 millimeters in height. The CSN950 dimensioners carry a European legal-for-trade height approval of 20 millimeters. The CSN950 was able to recover additional revenue on that extra 9 percent, whereas the rival dimensioner could only measure items over

50 millimeters in height for legal for trade invoicing.

The more parcels a dimensioner can read and accurately measure that are legal for trade, the more revenue it recovers. An efficient sort with minimum manual intervention results in a profitable operation. The CSN950 MultiHead has proven itself to be best-in-test when it comes to accurately measuring and recovering revenue on the widest range of items.

There are many dimensioners on the market today, but there is a difference. We challenge you to put the CSN950 to the test and see for yourself the extra revenue it brings to your operation.

► www.mt.com/CSN950-11



Maximize Revenue and Sorting Efficiency.

Head-to-Head Test Results	
Increased Read Rate	12.5%
Read more colors	3.5%
Measure more items LFT	9.0%



Safety at Sea New Weighing Regulations

New regulations for the Safety of Life at Sea (SOLAS) that took effect on July 1, 2016, require that shippers whose names appear on the bill of lading to verify the gross mass of all containers before they are shipped at the terminal.



SOLAS is an international maritime safety treaty which aims to ensure safety at sea. This means ensuring that ships comply with certain safety standards.

A change in shipping regulations

The shipping industry changed its processes to be compliant with the new regulations. Any business within the logistics chain that declares itself the shipper of sea freight, is responsible for declaring the weight of a container or shipment before it can legally leave the shore.

How to comply

There are two different methods to ensure compliance. Method One involves weighing the entire shipping container, contents and packing. Method Two requires you to weigh the contents separately, and then add the packing material and the container tare weight to calculate the declared weight. Either way, the weight of every container has to be declared on arrival at the port.

How METTLER TOLEDO can help

We have crafted an FAQ guide to answer the top questions for shippers worldwide. Here you can learn more about:

The new SOLAS Guidelines

- Why it was created
- Who is responsible for compliance
- Who is responsible for enforcement
- How to comply, and
- How METTLER TOLEDO can help

Download our SOLAS legislation guide.

► www.mt.com/veh-solas-tl

Free DWS Buyer's Guide

For an Informed Choice

Download it for:

- Practical information for experienced and first-time buyers
- How-to select the right equipment
- What to consider before, during and after investment
- How to assess total cost-of-ownership



For more information

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