

Transport & Logistics

All the Measurements You Need



11 News

Measure 720 Pallets an Hour The Freight Industry Shake Up

What percentage of pallets do you measure today? 20 percent? 30?

Now, with dynamic pallet dimensioning shaking up the industry, carriers can realistically recover revenue on 100 percent of freight.

Until now, measuring 100 percent of freight has been something of which carriers could only dream. In a terminal that processes 5,000 pallets per day, carriers could realistically expect to measure somewhere between 20 – 30 percent, focusing on pallets destined for international transport, those with a clear need for reclassification or those from customers without a pre-negotiated pricing contract.

The industry game changer

Without a solution that handles throughputs upwards of 5,000 pallets per day, there was no need to change the traditional classification or pricing model. Now, this is where the real game-

changer lies: dynamic pallet dimensioning not only brings efficiency to freight handling, it makes a new pricing model possible. Step-by-step, we expect to see the industry move away from freight classification and towards a dimensional weight pricing structure that ensures carriers get paid properly for space.

Start preparing

To implement dynamic pallet dimensioning you will need to first optimize your operational processes. Changing to dynamic measuring is a fundamental shift, talk to your METTLER TOLEDO representative about what is needed and if the move to dynamic is right for you.



METTLER

TOLEDO

Measure 100% of Pallets Non-Stop Revenue Recovery

To keep efficiency at its peak, you need a pallet dimensioner that puts no restrictions on operations. The TLD970 requires no slow-down, measures trucks traveling at 8 mph no careful positioning and no markings on the floor or truck. In fact, it is so seamlessly integrated, you'll hardly know it's there.

► www.mt.com/TLD970

All pallet data in one dynamic process

Chances are you're already using forklift scales for weighing. Combine that scale with dimensioning and you have one process for creating a complete data profile for every pallet. Use that data for invoicing, planning and customer communication, all from one single, seamlessly integrated solution.

No slow-down in operations

Forklift trucks can approach the dimensioner from any angle, from the front or the back or even in reverse. The large field of view means you don't need to spend time positioning the forklift truck for measurement. Dimensioning can be achieved at speeds up to eight miles an hour for high pallet throughput.





No obstacles on the floor

Anything positioned on the ground of a fast-paced freight handling environment is in the way and prone to damage. The TLD970 is mounted overhead with nothing to restrict forklift traffic.

Measure any pallet first-time

Some dimensioners struggle to measure pallets covered with certain materials such as black plastic. The large optics of the TLD970 ensure that every pallet is measured with ease, even at high speeds.

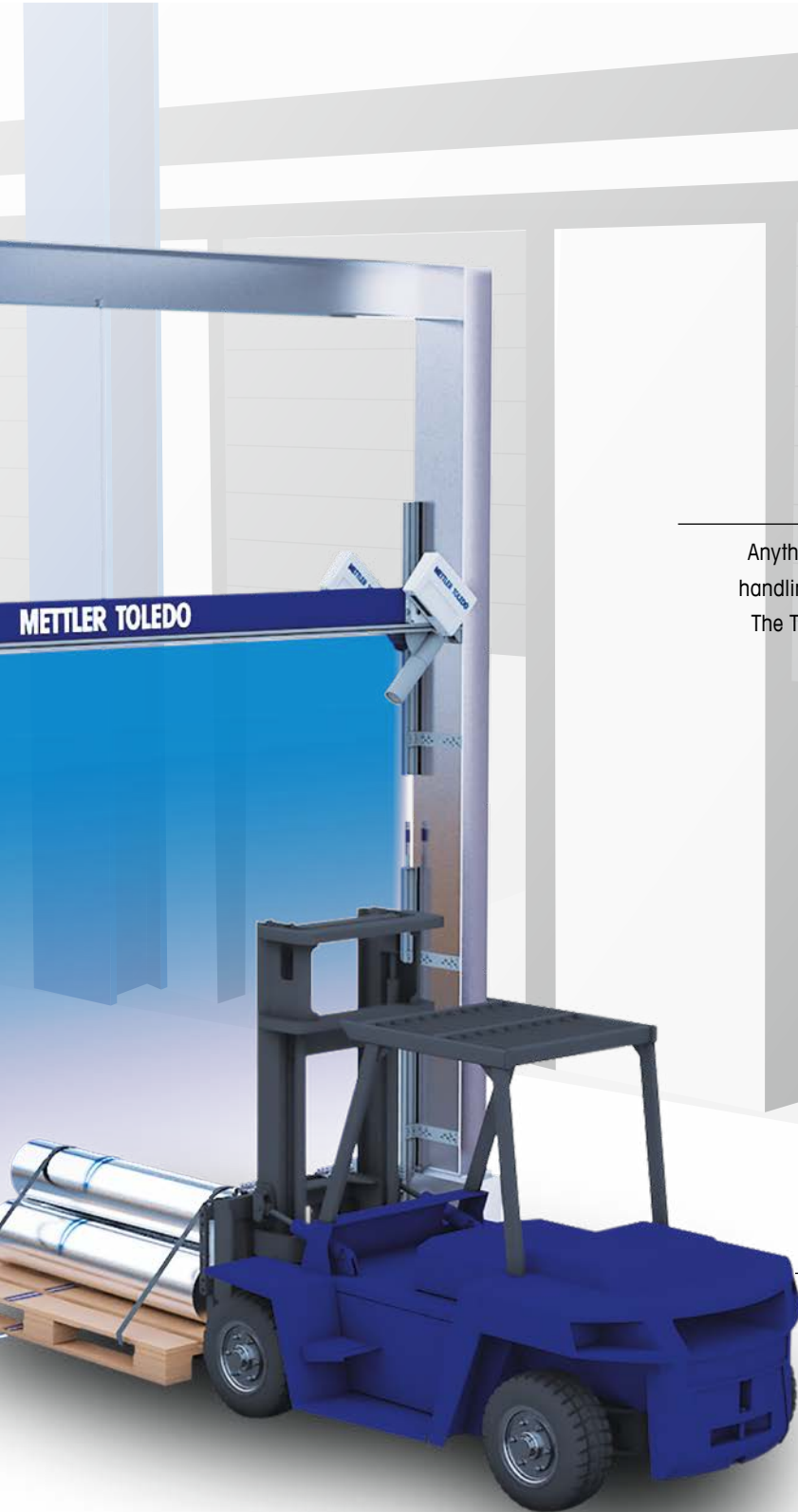
Low-cost maintenance

Take one dimensioner and multiply it by four. Having only one key component to dimension and measure both forklift speed and tilt makes the system easy and cost-effective to maintain. By eliminating the need for floor markings you save time and hassle with upkeep.

Measure any shape and size

Irregular pallets, black plastic, tires, clear or shiny wrapping

Suitable for customers with high volume requirements. Requires certain process and infrastructure optimization.



High-Volume Smalls Handling Space-Saving, Robust Design

The ability to sort the complete parcel mix without manual intervention is key to efficient distribution. New high-speed dimensioning, weighing and scanning systems for smalls provide fast, accurate measurement of all but the smallest objects.

Higher volumes, smaller parcels

As eCommerce grows, the size of shipments shrinks. Distribution centers and carriers need to adjust their processes to efficiently handle higher volumes of smaller shipments. Processing 'smalls' on the main line reduces efficiency of systems designed to handle larger items and may not detect the smallest objects or measure them legal-for-trade.

Increase your revenue recovery

With a dimensioner height approval of two millimetres in height, revenue recovery can start on parcels that are only 20 millimeters high. Smaller parcels account for a larger and larger percentage of total parcel counts. Make sure you can recover revenue on as many of the items you handle as possible.

Optimize space while maintaining throughput

As shipments get smaller, your equipment should too. Dimensioners should be mounted over a high-precision scale with a smaller-than-usual footprint for maintaining the highest throughputs without requiring a lot of floor space. A smaller weighing belt is key, as it allows items to move through the system quickly, keeping throughput at maximum capacity.

► www.mt.com



- High weighing precision
- Small system footprint
- Smooth parcel transfer

- Dimension down to 2 mm, LFT
- Flexible Integration
- Smart Data Management

- Flexible barcode reading options
- All data in one string
- Multi lingual HMI



Ensure uptime of your smalls DWS System

- Designed for use in rough, high-speed environments
- Health monitoring keeps a close eye on system performance
- Predictive maintenance reports provide service recommendations
- Tailored service contracts guarantee response time

► www.mt.com/service

Beyond Revenue Recovery 4 Ways Data Enhances Operations

Data from your dimensioning, weighing and scanning system isn't only for revenue recovery. Understand the four ways this data can be used to improve throughput, uptime and customer service.

► www.mt.com/logistics-competency

1



Improving sorter efficiency

Collecting information about parcels traveling side by side, that are too long for an out-feed or that go undetected by the barcode reader can prevent delays, damage, missorts and incorrect data profiles. Your dimensioner can report these problems to the host for parcel redirection, avoiding damage or missorts.

► www.mt.com/dimensioning

2



Creating operational improvement

Use statistical information related to parcels measured, throughput, no-reads and errors to help with planning, trend analysis and operational optimization. Understand the reasons for missorts or no-reads, and take corrective action to increase sorter efficiency and reduce the need for manual intervention.

► www.mt.com/OCTO

3



Gaining uptime – and peace of mind

Just as your car tells you to top off your oil or go in for service, if something is wrong with your scale, dimensioner or barcode reader, health-monitoring software alerts you before your system breaks down. This warning of a potential problem can help ensure your operation continues to run smoothly.

► www.mt.com/ind-intouch

4



Planning for service

Information about the health of your data-capture equipment aids in asset management, service budget-planning and maintenance decisions. That reports how your dimensioning, weighing and barcode-reading equipment is performing to prevent breakdowns, plan your service budget and determine maintenance priorities.

► www.mt.com/tl_service



Smart, Safe and Seamlessly Integrated New Wireless Forklift Scale

The newest forklift scale to hit the market answers the industry's call for a pallet-weighting solution that has no extra hardware, communicates wirelessly with dimensioners, other scales & smart PCs, and delivers data into one string in any format.



Cut maintenance costs in half

The less hardware you have to maintain, the lower your risk of failure. The terminal of the TLF820 is virtual, embedded in the weighing carriage. The scale itself is low-maintenance thanks to patented 3-point suspension that holds calibration for 12 months.



Reduce accident risk

Did you know that eleven percent of forklift trucks will be involved in an accident this year? Reduce the risk by choosing a scale with no extra terminal to obscure the driver's view and a viewing window that is sixteen percent larger than that of any other forklift scale.



Withstand knocks and crashes

During the testing of our forklift scales, the forklift was crashed into a wall. The scale still worked (even when the forklift didn't). Designed for use in harsh, industrial environments, the TLF820 delivers reliable, legal-for-trade weighing results even after knocks and bumps.

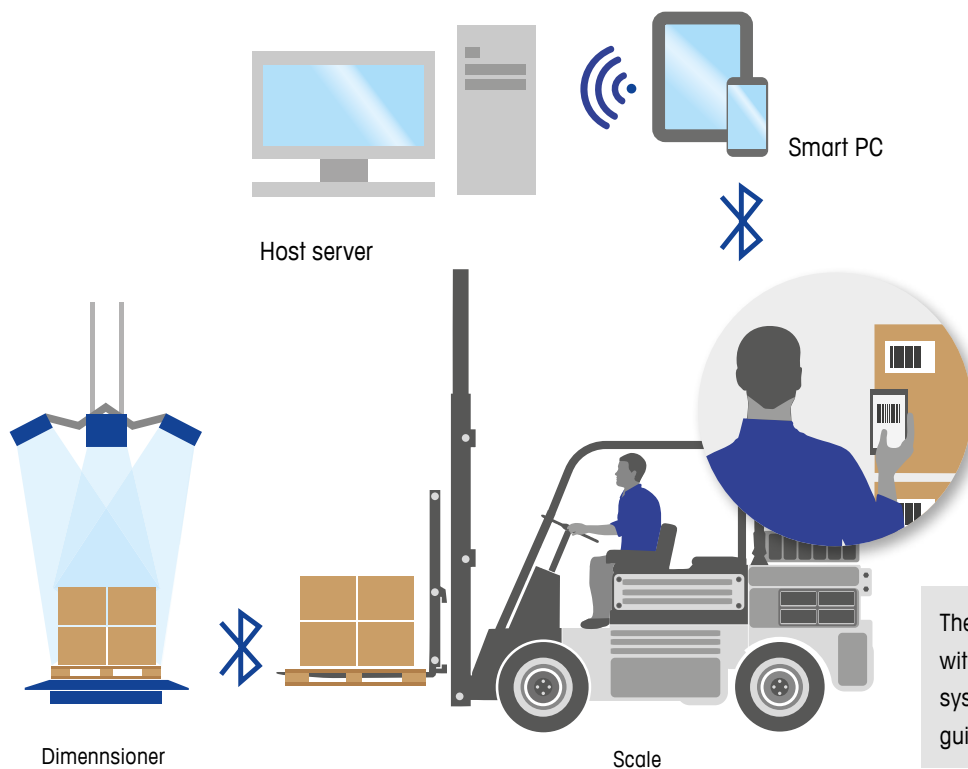
Freight and LTL solutions

To discover the full range of solutions for Freight and LTL from floor scales to pallet dimensioners, download our Freight Solutions Guide:

Visit our website
www.mt.com/freight-solutions



Seamless integration minimizes process steps and keeps drivers off the floor



The scale communicates seamlessly with the dimensioner, smart PC and host system, providing step-by-step workflow guidance clearly displayed on the terminal.

Your Key to Productivity? Selecting the Right Dynamic Scale

High-speed weighing can be challenging but it needn't slow you down. To maintain throughput, look for features that keep your high-speed lines running smoothly.

1. Review your speed requirements

Determine how fast the scale needs to operate to keep up with your throughput requirements. The most advanced dynamic scales run at speeds of up to 3 meters per second. The higher the throughput, the less time there is to weigh each package, making stabilization times a critical consideration.

2. Select the right scale size


The longer the parcels, the faster the conveyor must move to maintain throughput. Using a shorter weighing belt where possible helps to minimize conveyor speed while maintaining optimal throughput.

3. Consider a dual-scale solution

Weighing belts must be as long as the longest parcel. A scale with two weighing belts of different lengths offers a solution to this. Small parcels are weighed on the smaller scale and long parcels are directed to the longer one, helping to maintain the highest possible throughput.

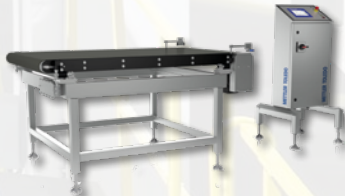
4. Use a flexible weighing point

The flexible weighing point at the outset is how a dual scale determines which belt to use. The same placement optimization software can also be used on a single scale solution. Used on a single scale, the software has been shown to increase throughput by up to 30 percent.



TLW250
Cost-effective dynamic weighing with reliable performance


Essential performance
Reliable, cost-effective dynamic weighing



TLW450
High-speed, high accuracy dynamic weighing

High speed
Speeds up to 180 m/min
Fast data communication

High accuracy
Accuracy in all conditions



XS100 DualScale
High performance, high throughput weighing with exceptional robustness

High speed
Speeds up to 180 m/min, fast data communication

High throughput
Two weighing belts Flexible weighing point

Robust design
Sturdy frame and feet, stiff lightweight conveyor body

Throughput	Up to 7 200 pcs/h	Up to 11 000 pcs/h	Up to 18 000 pcs/h
Flexible Weighing Point	-	Yes	Yes
Dimension & Barcode Merging	-	Yes	Yes
Advanced Filter Technology	-	Yes	Yes
Multi-Lingual Terminal	Yes	Yes	Yes
Advanced Operation Modes	-	-	Yes
Delivered with Dimensioning & Barcode Reading	Optional	Optional	Optional
Speed	100 m/min	180 m/min	180 m/min
Accuracy	5–20 g	2–5 g	50–150 g*
More Information	www.mt.com/TLW250	www.mt.com/TLW450	www.mt.com/XS-dualscale

*depending on parcel weight, in accordance with OIML.

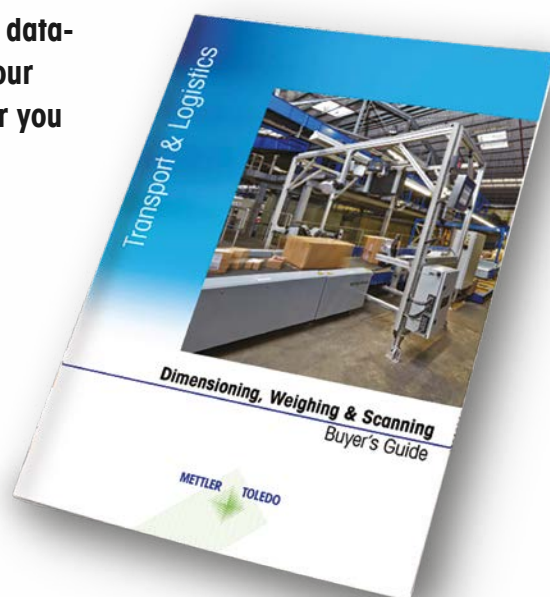
Your Guide to Profitable Logistics

Select the Right System

Our dimensioning, weighing and scanning buyer's guide provides expertise for companies considering investment in automatic data-capture equipment. This know-how will help you to achieve your read-rate, throughput and accuracy requirements, for whatever you measure.

Learn about:

1. The right technology for your data-capture requirements
2. Turn-key dimensioning, weighing and scanning solutions
3. How to evaluate cost of ownership
4. Features that improve revenue
5. How to plan for uptime



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