

# Solid Waste

Industrial weighing and measurement



# 1 News

## Weighing Solutions for Today's Waste Facilities

**Great changes continue in the solid waste management industry. The past few years have seen a reduction in the number of landfills, a shift to larger facilities, and the development of efficient transfer stations.**

As a result, managing a solid waste facility is a greater challenge than ever. Handling significantly increased truck traffic, managing more complex financial transactions, and meeting regulatory reporting requirements have become priorities.

Whether you run a transfer station, a materials recovery facility (MRF), a landfill, or a composting facility, managing weight-based vehicle information effectively has become critical to your operation. Two keys to success are capturing weight data quickly and integrating that data into accounting software packages.

By combining a well-planned traffic pattern with a rugged scale, an unattended driver terminal, and a data management system, your facility can process more trucks during each shift and reduce traffic congestion.

METTLER TOLEDO® understands the challenges facing today's solid waste facilities. Our emphasis on technology and service enables us to provide the following benefits:

- Superior products
- Responsive service
- Lowest total cost of ownership
- Compliance with regulations



**METTLER TOLEDO**

## Accurate Vehicle Weighing over a Long Service Life



Scales that are used for weighing solid waste must be able to handle heavy loads and high volumes of traffic. METTLER TOLEDO weighbridges are designed to meet those challenges. We test each of our weighbridge designs for durability. With our unique accelerated-life-cycle test system, we can simulate 20 years of use to guarantee that a weighbridge will stand up to the real-life demands of your weighing operation.

### Digital Load Cells

The strength of our weighbridges is equaled by the accuracy of our patented load cells. MTX<sup>®</sup> load cells are a third-generation POWERCELL<sup>®</sup> technology that provides the ultimate in performance and reliability. A built-in microprocessor continuously monitors the load cell's performance and compensates for changes in temperature and other external conditions. If a load cell has a problem, its internal diagnostic features pinpoint the problem so that it can be corrected quickly with a minimum of downtime.

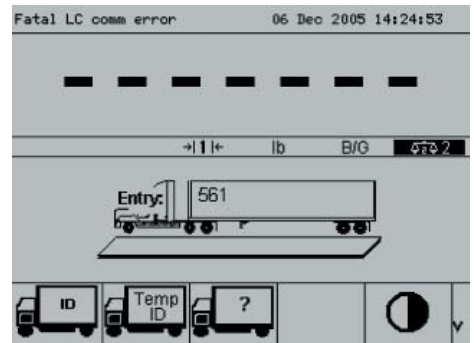
### Designed for All Environments

Our MTX load cells are designed to withstand the environments that are common to the solid waste industry. Their stainless steel canisters are hermetically sealed and rated IP68/IP69 to withstand continuous immersion in water and power washing. Each MTX load cell is equipped with a debris shield to keep the scale weighing accurately by preventing material from collecting around the load pin. We can also supply risers to prevent snow, ice, and debris that collect under the weighbridge from affecting weighing accuracy.



MTX load cells feature a water-tight, stainless steel canister with a debris shield to protect the load pin.

If there is a problem with a load cell, an IND310 terminal alerts the scale operator instantly by blanking the weight reading, displaying an error message, and identifying the suspect load cell.



METTLER TOLEDO truck scales perform reliably in all environments, from the scorching heat of the desert to the freezing cold of Antarctica.

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# Vehicle Scale Software for Increased Efficiency



An OverDrive™ software solution can increase efficiency and profits by making a truck scale an integral part of a facility's business operation. It provides a complete data management center with instant access to the information about waste materials, vehicles, and customers that is used in weighing transactions. In addition to recording weights, the software generates tickets, compiles reports, and stores information for compliance.

## Complete Scale Control

OverDrive software provides the brains to run a complete inbound/outbound weighing operation, including multiple scales, traffic lights, gates, and ticket printers. It can be used as a stand-alone system or integrated into a computer network. For larger operations, OverDrive software can

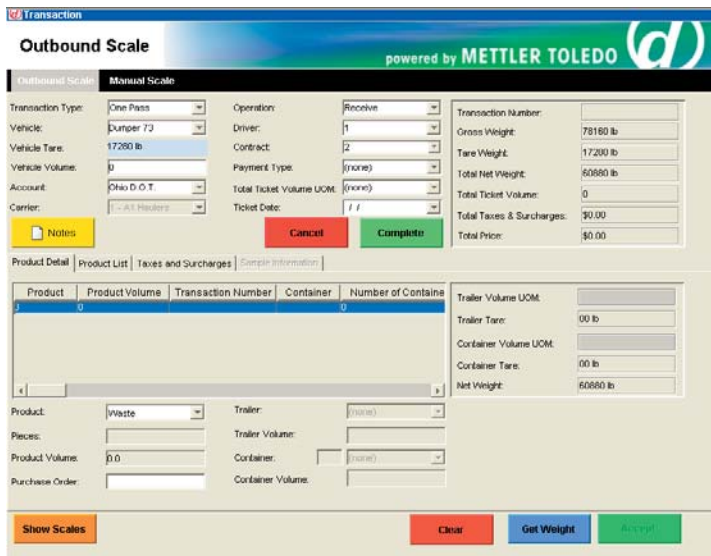
manage multiple sites, making it possible to consolidate and share data. In addition to speeding up traffic over a truck scale, it saves time and money by streamlining the business end of an operation.

## Designed for Waste Facilities

The software's advanced transaction module provides an array of features designed specifically for waste facilities. For each transaction, the OverDrive system can record information about the waste's origin/destination, generator, profile, special handling instructions, permits, and approvals. With its advanced pricing capabilities, the software can automatically calculate tipping fees and taxes based on factors such as the type of waste or the origin of the waste.



OverDrive software controls one to six scales plus options such as unattended driver terminals, traffic lights, loops, and gates.



OverDrive software features easy-to-use screens that can be configured to show exactly the information that your operation requires.



Unattended driver terminals keep traffic moving over scales by allowing drivers to process their own transactions in seconds.

# Tailored Service Meets Waste Management's Needs



**METTLER TOLEDO developed a comprehensive service plan to help solid waste facilities in Arizona reduce downtime and save money.**

Waste Management (WM) is the leading provider of comprehensive waste and environmental services in North America. With headquarters in Houston, Texas, the company has a network that includes 429 collection operations, 366 transfer stations, 289 active landfill disposal sites, 17 waste-to-energy plants, 138 recycling plants, and 85 beneficial-use landfill gas projects. These assets enable WM to offer a full range of environmental services to nearly 21 million residential, industrial, municipal, and commercial customers.

In order to maintain quality service for its customers, WM must accurately track the weight of refuse moving in and out of the facilities. METTLER TOLEDO was servicing about half of

the WM sites in Arizona, while multiple vendors were providing service to the other half. In an effort to improve the level of service and streamline the number of vendors providing service, Vince Murphy, director of operations for the Arizona market area, asked METTLER TOLEDO to present its best idea for the service plan.

METTLER TOLEDO understands that “one size fits all” service is not the answer. A generic service strategy assumes that each piece of equipment is equally critical or represents the same value and impact to an operation. Service Sales Representatives Paul Dounian and Klaus Damm created a tailored service approach that is designed to handle both the compliance and downtime issues: The Platinum Service Plan.

The Platinum Service Plan is a flat-rate, all-inclusive agreement that provides proactive service to critical-needs customers. “The comprehensive service approach has brought WM Arizona and METTLER TOLEDO into a partnership relationship,” comments Dounian. “Both teams are focused on a common enemy, unscheduled downtime and out-of-compliance issues due to inaccuracy.”

Because service is tailored to how critical each scale is, WM is ensured that the scales with the highest compli-

ance risk, such as those at a transfer station, are serviced more frequently. Proactive maintenance services are conducted by factory-trained and certified service representatives who will replace and/or fix any potentially defective parts on covered equipment prior to the point of full damage.



The Platinum Service Plan has reduced downtime for the scales that weigh Waste Management's trucks.

Downtime has significantly improved due to this pre-established, proactive service approach. When WM has equipment that is down, all they have to do is pick up the phone. The Platinum Service Plan covers all the parts and labor for repairs performed on covered equipment. Priority response time is also given to Platinum Service customers.



Waste Management serves nearly 21 million customers.

# Complete Vehicle Scale Solution Keeps Traffic Moving for Valespace

**Because of the growth of its solid waste management business, Valespace needed a vehicle scale solution that would handle increased traffic.**

Valespace is a waste sorting and recycling center based in Chambéry, France. Set up in 1995, it treats about 29,000 metric tons of waste per year. The company has two main types of customers: industrial customers and 14 local waste authorities.

Valespace employs a staff of 65 and is an approved “back to work” company. In fact, 35 members of its staff are in the process of returning to work after being unemployed. Almost every type of waste is handled at the site: paper, cardboard, plastic, wood, metal, etc. The facility sorts more than 15 types of input and operates two sorting lines: one for domestic waste and the other for industrial waste. One of the key features of the company is that sorting is carried out manually.

In order to meet the requirements of its industrial customers regarding the risk of storing hazardous materials,

Valespace opened a transit platform for special waste in February 2004. Paints, bases, solvents, batteries, plant-protection products, etc., are kept temporarily at a storage center before being sent on to waste treatment or landfill units.

Weighing is vital to the sorting center because its commercial transactions are based on the weight of the waste. Valespace had a single vehicle scale for weighing trucks. But as the business grew, the weighing station very quickly became congested, with drivers often having a long wait. To meet its growing needs, Valespace commissioned METTLER TOLEDO to install a second vehicle scale, two unattended weighing terminals, and OverDrive™ weight management software.

Once the new equipment was installed, the weighing station made the site more secure, protected the

vehicle scales, and, more importantly, kept the traffic flowing. Drivers identify themselves by swiping a badge in front of the weighing terminal.



OverDrive software records all weighing data from the truck scales so that the data can be used for billing.

The OverDrive software records all the weighing data (driver, customer, carrier, type of product, origin, weight, etc.) and retrieves it the next day for billing purposes. It also provides maximum traceability and data protection. To weigh special waste from its transit platform, Valespace has also invested in a 3-ton weighing platform, which is accurate to the kilogram.

Satisfied with the solution, Valespace has decided to have METTLER TOLEDO handle the regular inspection of its weighing equipment.



The new truck scale, unattended weighing terminals, and OverDrive software have significantly reduced the time needed to weigh trucks.

# A Wide Range of Solutions to Improve Processes

METTLER TOLEDO offers a complete line of products for weighing and measurement. In addition to vehicle scales, we supply bench scales and floor scales for weighing solid waste within a facility. We also supply analytical equipment such as benchtop and handheld pH meters for facilities that need to monitor pH levels in leachate and groundwater.



SevenMulti™ pH meter

## Fast and Reliable Service

ServiceXXL complements the best vehicle scales with outstanding installation, calibration, and maintenance services. Our project managers coordinate all tasks, equipment, and contractors for an on-time, in-spec weighbridge installation. We are also expert in installing, connecting, and configuring the information technology essential to collecting, recording, and networking vehicle transaction data.

Our vehicle scale maintenance programs include periodic, factory-specified checks and adjustments to provide long service life and a safe, accurate, and productive scale. Allow us to tailor a cost-effective vehicle scale service agreement that delivers the service you need when you need it, making sure that nothing slows down scale traffic.



From routine maintenance to emergency service, our global network offers the service needed to keep your scale running.

**ServiceXXL**

Tailored Services

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