

# Scrap Metal

Industrial weighing and measurement



# 1 News

## Meeting the Needs of Scrap Metal Facilities

**METTLER TOLEDO provides complete weighing solutions for scrap metal facilities, from bench scales for weighing precious metals to heavy-duty truck and rail scales.**

With the demand for scrap metal increasing, managing a recycling operation is becoming a greater challenge than ever. Improving productivity and inventory control have become critical. Facilities that can respond to the increased demand quickly and efficiently will have a significant advantage over their competitors.

Because scrap metal is bought and sold by weight, accurate scales are essential to the success of your operation. They affect profits directly by ensuring that you do not pay too much for the scrap metal you buy or charge

too little for the scrap metal you sell. They also help comply with government regulations and avoid fines for overloaded trucks.

In order to maintain productivity, a scrap metal facility needs scales that operate reliably over a long service life. METTLER TOLEDO scales have demonstrated the ability to stand up to tough industrial environments. Because our scales are both durable and easy to maintain, they deliver reliable performance with a minimum of unscheduled downtime.



**METTLER TOLEDO**

## Vehicle Scales Designed for Reliable Operation

**With thousands of vehicle scale installations, METTLER TOLEDO has demonstrated a commitment to quality that you can count on.**

Whether materials are transported by truck or rail, accurate weighing is important to the success of your facility. It helps prevent lost income due to incorrect weights and fines for overloading. But reliability is equally important. A vehicle scale should be reliable enough to keep operating over a long service life with minimal downtime and maintenance costs.

To evaluate a vehicle scale's reliability, look closely at two components: weighbridges and load cells.

### Weighbridges

METTLER TOLEDO offers a selection of weighbridge designs for applications ranging from general commercial use to the heaviest industrial weighing. Each truck scale design is tested thoroughly to ensure that it can handle the real-world demands of heavy-capacity weighing. We place an actual scale module on our "module masher" accelerated-life-cycle test

stand and apply the equivalent of 20 years of truck traffic at the rated capacity. That testing enables us to deliver scales with proven performance and durability.

We supply a variety of vehicle scales to meet special requirements:

- Steel and concrete decks
- Above-ground and pit scales
- Multiple-platform scales
- Portable truck scales

### Load Cells

Our POWERCELL<sup>®</sup> MTX<sup>®</sup> load cells are precision instruments that are durable enough to meet the demands of heavy-capacity weighing in all environments. The electronic components are housed in a hermetically sealed, stainless steel canister that protects against moisture and corrosion. An integral rocker column automatically aligns the load cell for the best weighing accuracy.

With more than 500,000 in service worldwide, our POWERCELL load cells deliver the ultimate in vehicle scale reliability:

- Designed to operate in all climates
- Self-diagnostic – instant error notification
- Virtually eliminates unplanned service costs



POWERCELL MTX Load Cell

METTLER TOLEDO has the products and the know-how to supply a complete weighing solution that meets your needs. Our quality products ensure that you get the most for your investment.



The module masher tests truck scale modules by simulating 20 years of traffic within 2 months.

#### Publisher

Mettler-Toledo, Inc.  
1900 Polaris Parkway  
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USA

MTMS 61041406

Subject to technical changes.  
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Printed in USA.

# 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 products, pricing, vehicles, and customers that is used in weighing transactions. In addition to processing weighing transactions, the software controls inventory, generates invoices, and compiles reports.

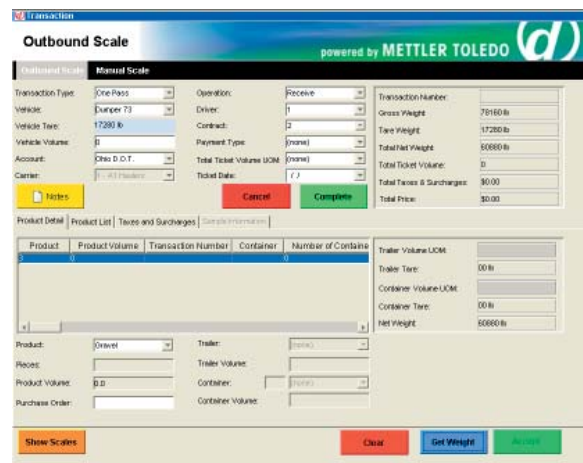
## Complete Scale Control

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 man-

age 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.

## Unattended Weighing

When it is not practical to have a scale operator on duty, OverDrive software can be used with our unattended driver terminals. These terminals automate scales by allowing truck drivers to process their own inbound and outbound weighing transactions in seconds. Drivers identify themselves with an access code or card and receive a ticket for each transaction. All data from the unattended transaction is recorded in the OverDrive database.



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.



Unattended driver terminals can be equipped with card reader, printer, intercom, or other options.

# Scale Terminals for Vehicle Weighing

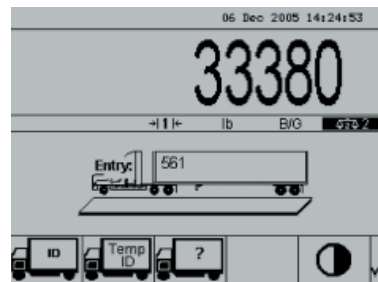


METTLER TOLEDO offers vehicle scale terminals that do more than just display weights. They let you use those weights to process vehicle weighing transactions. By combining advanced capabilities with simple operation, our products enable you to do more with your scale and get it done faster.

### IND310 Terminal

The IND310 terminal is designed to provide a flexible system for processing inbound/outbound weighing transactions. In addition to Vehicle ID and transaction tables, it includes four tables for storing user-defined information. You can accumulate

weights by Vehicle ID or by fields within any of the user-defined tables. Search capabilities speed up transactions by locating data quickly.

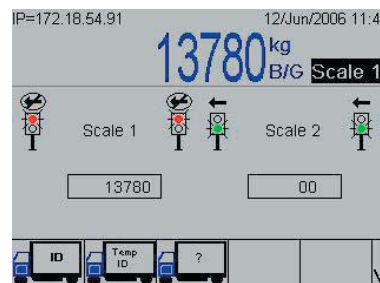


IND310 graphic display

### IND780 Terminal

The IND780 terminal with vehicle weighing software provides basic processing of inbound/outbound trans-

actions. Its built-in database includes tables for Vehicle ID, transactions, and user-defined information. One of the strengths of the IND780 terminal is its control and communication capabilities. It can control multiple vehicle scales plus peripheral devices such as traffic lights and gates.



IND780 graphic display

# Fast and Reliable Service to Keep Your Operation Running

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.

**ServiceXXL**  
Tailored Services



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

# Scale Increases Efficiency of Scrap Metal Facility

**When Research Alloys needed a new truck scale, it turned to a trusted supplier. METTLER TOLEDO has been a business partner of the scrap metal company for more than two decades.**

Research Alloys has been in the scrap metal business in Columbus, Ohio, for 25 years. The company specializes in collecting high-temperature and precious-metal scrap from industrial facilities. It takes in both ferrous and non-ferrous metals, which are then prepared for sale to mills and other metal-producing operations.

In 2006 owner and president Joe Cusato decided to invest in a new truck scale. The existing scale was too short and its position on the property made the traffic flow inefficient. The first supplier he thought of was METTLER TOLEDO.

The two companies have a strong business relationship. Research Alloys has been hauling scrap from the

METTLER TOLEDO heavy-capacity manufacturing facility in Columbus for more than 20 years. “We needed a new longer scale to accommodate our trucks,” says Cusato. “Choosing METTLER TOLEDO originally stemmed from personal ideas about supporting local business and loyalty, but their professionalism and efficiency made the choice all the more easy. The excellent quality of their product, combined with these factors, has made us very happy.”

Research Alloys chose a 70-foot, steel-deck truck scale that is installed in a pit. An ADI310 driver display is installed next to the scale to allow customers to see full and empty vehicle weights. For weighing smaller amounts of scrap metal, the facility

also has a floor scale, which was purchased in 2005.

Research Alloys uses its own trucks to collect roll-off containers full of scrap metal from industrial clients. The loaded trucks weigh in on the truck scale, dump their loads, and then weigh out to determine the net weight of the scrap metal. If neces-



ADI310 Driver Display

sary, the scrap is cleaned and cut to a manageable size. The scrap is then compressed and baled for shipment to customers. Research Alloys also receives scrap from auctions and from peddlers who haul collected material to the site.

According to Cusato, the new truck scale has helped the traffic flow and the efficiency of the operation. It will also make future growth much easier. METTLER TOLEDO is providing service for the truck scale to ensure that it continues to operate properly.



The new truck scale has improved traffic flow at the Research Alloys facility.

# Floor Scales

## Built to Last

**Not all scrap metal that arrives at a facility is delivered by the truck-load. For smaller amounts and high-value metals, a floor scale is often the best weighing solution.**

METTLER TOLEDO floor scales combine exceptional accuracy with the durability to stand up to heavy use in demanding environments. We supply scales with standard capacities of 500 to 20,000 pounds and heavy-duty scales that weigh up to 60,000 pounds.



VERTEX Floor Scale

Our VERTEX<sup>®</sup> floor scales are an excellent choice for most industrial weighing applications. The scale components are made to last, with critical tolerances built in at the factory. Because the components do not become loose or out of specification, the scale maintains its weighing accuracy even after years of use. The scales feature a self-aligning, rocker-pin suspension that transfers the load from the scale platform to a single point on each load cell. This type of suspension provides accurate weighing and is more durable than suspensions that use threaded feet to support the load cells.

The scales are versatile enough to be installed on top of the floor or in a pit. Top-of-floor installations can be equipped with ramps to make them easily accessible from any side. Floor scales can be equipped with an optional wheel kit or forklift-channel frame to make it easy to move them to different locations.



Floor scales are used to weigh copper and other high-value metals.



We design our floor scales to handle concentrated loads from forklift traffic.

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For more information