The Bulk Material Operations Experts

Leading the industry in:
- Automated Truck Weighing
- High Speed Bulk Weighing
- Bin Inventory Software
- Facility Automation
- Rail and Barge Logistics

- Grain
- Minerals
- Bio-fuels
- Salt
- Milling
- Fertilizer
What is SmartTruck?
SmartTruck is a sophisticated yet easy to use automated truck weighing system that allows you to process more trucks in less time, saving you and your customers time and money.

SmartTruck utilizes a combination of long range RF cards, outside message boards, electronic photo eyes, video surveillance cameras, IP based intercom systems, electronic signature pads, driver’s license readers and a powerful computer system configured to your specific needs.

The focus is on automating the whole process of truck receiving and loadout, reducing scale ticketing errors and eliminating the need to employ staff anywhere other than the first point of contact, which is typically the probe station in a grain receiving application.

What can you expect from a SmartTruck System?
- Average return on investment in less than two years by:
  - eliminating head count at the scales and dump pits
  - processing more trucks in less time
  - reducing waiting time allowing trucks to run more loads each day
  - reducing ticket errors with SmartTalk intercom system featuring noise cancellation and clearly posting ticket data on message boards for drivers to confirm
  - automatically directing trucks to the correct dump pit
  - sounding an alarm if a truck arrives at the wrong pit
  - keeping drivers in trucks eliminating office disruption
  - providing a reason other than price per bushel to attract customers
- Interfaces to all accounting systems
Outdoor Ticket Printer
Drivers can collect their tickets within seconds without leaving their truck from the OTP-4600 printer. Features full 8 ½" wide tickets with 6,000 tickets per roll. Driver can also print additional tickets with “Push To Reprint” button.

Driver Communication System
The SmartTalk intercom system features noise cancellation which provides clear communication between the driver and probe/scale control room. Includes a wireless headset which allows staff to perform other duties while talking to drivers. When used with iGMS software, built-in camera captures an image of the driver and saves this file with the transaction record.

Driver Data Entry Device
SmartCom allows the driver to enter a Sales/Load Order Number, etc. without leaving the truck.

Indoor Signature Pad
SmartPad captures the driver’s and/or weigh master’s signature which can be printed on each ticket.

Flow Meter Load-out Interface
SmartFlow loadout enables you to interface your Determan Brownie, Accuload or MicroLoad flow meter to GMS. Alpha-numeric data such as Sales or Load Order Numbers, etc. can be entered, recorded and validated against data imported from your host accounting system.

RF Card Dispenser & Collector
SmartCard is ideal for providing and collecting temporary RF cards for drivers who are not regular customers.

Long Range RF Cards
3" x 5½" plastic cards have a 15’ - 20’ range. Includes a clip for attaching to the truck’s sun visor and custom graphics with four-color artwork.

Loader Operating System
SmartFill allows the loader operator to view scale in-transit lists, initiate orders and monitor trucks in the yard.

Trip Reporting System
The SmartTime Trip Reporting System is designed to provide producers with truck transit times along with current wait times.

• Tracks each truck from the time it crosses the property line to the time it receives the scale ticket for total, on-site time recording
• Reports current and yesterday’s average wait times, and graphs the average wait time by hour of the day
• Data can be displayed on Smartphone or exported to the customer’s website
Other companies offer a “one design fits all” solution, but CompuWeigh knows that every business is different. This provides you with a user interface that is clear, concise and allows for multiple operators to quickly learn the system.

iGMS is available in three versions:
- **iGMS-Truck** is used for facilities that do not process enough trucks each day to warrant an automated SmartTruck System
- **iGMS SmartTruck** is used for facilities that want to set themselves apart from the competition with increased speed and accuracy, as well as reducing the need for employees to run the system
- **iGMS-Track** is used for railroad track scales

**System Design Benefits**
- Server / Client Architecture capable of running on Thin Clients or desktop PCs
- Client interface can be run from anywhere via Web browser
- SQL Database
- Flexible customization capabilities
- Use with any computer that runs Internet Explorer
- No pre-installed software required on user computer
- Built on technologies familiar to Corporate IT staff enabling local control over system

**Management Benefits**
- Easily oversee the operation from any computer at the elevator
- Easy management access to multiple sites from anywhere via web
- Daily Truck Flow Chart displays how long it takes for a truck to travel from station to station during the transaction process
- Drill-down reporting system allows you to find exactly what you want
- Comprehensive set of analytical reports and graphs

**Maintenance and Support Benefits**
- Single update to central server automatically updates all workstations
- Users always running the latest code
- No user computers to configure or support
- Remote access troubleshooting capability
- Automatic system “health” monitoring with events logger
- Simplifies technical support
- Lowers equipment costs
Automate dump pits to enhance performance!

iGMS can be configured to automate the process of sending grain to the dump pits and loadout stations to reduce errors, speed up the receiving/loadout process and automate the process of managing where trucks are sent.

**Dump Pit Workstation when used with SmartPit**
- Manage daily bin inventory
- Interfaces with Enterprise Inventory System providing complete inventory monitoring
- Color coded trucks allow for easy identification by dump pit operator
- Displays grade factors for each transaction within trailer
- Alerts dump pit attendant if:
  - Truck is in wrong lane
  - There is not enough space in bin

**SmartPit**
Automatically validate truck has arrived at the correct pit by scanning the RF badge and sound an alarm/flash a light should the truck arrive at the wrong pit. Enhance operation with message boards, traffic gates and traffic lights at each pit.

**Super SmartPit**
Add ability to automatically set the receiving path, control pit gate and tie into plant automation system. Add integration with Enterprise Inventory System for the ultimate in pit automation.

**SmartLane**
Automate the process of directing trucks to specific pits based on actual pit wait times or other site specific rules such as ensuring even equipment wear at each pit.

**SmartChoice**
Automatically direct trucks to the correct dump pit based on commodity or any combination of grade factors.

**Dump Pit Workstation Screen**

![Dump Pit Workstation Screen Image]
EIS is a comprehensive web based application which handles inventory of single or multiple facilities and allows for:

- Working in conjunction with Smart-Truck/SmartPit to maximize the bin decision process when receiving grain
- Powerful blending routines to maximize profits
- Total company IP management linking back to the original scale ticket
- "Drill Down" reporting to quickly find the information required
- Reconciliation to auditors’ year-end inventory valuations
- Web based Intranet system that leverages a company’s existing security system
- Runs on company’s main office SQL Server
- No data entry - uses existing scale ticket information
- When combined with the Enterprise Transportation System (see page 12), EIS allows for both real-time and virtual inventory to be computed based upon expected arrival times and calculation of known grade factors expected to arrive
CompuWeigh’s Automation Division sets itself apart from the competition by providing full facility automation that is tied into equipment such as bulk weigh scales, iGMS data collection or SmartTruck Technology.

With facility automation, we can integrate multiple monitoring systems, scales and data collection functions into one system. This allows decisions to be made such as which bin to send product to as well as what path to take in order to get the product to the correct location.

Automating these decisions increases efficiency and safety. I/O can also be added to control gates, monitor bearing temperature and belt alignment to provide faster, more accurate information.

Benefits
• Provides the ability to control or monitor the entire facility from one or more workstations

• Increases safety by monitoring equipment for hazardous conditions and proper operation

• Automated equipment can react in real-time to problem conditions resulting in increased safety

• Helps to prevent contamination of products

• Reduces overhead by allowing fewer people to control more
CompuWeigh revolutionized the bulk scale industry in 1978 with the Compudraft 1000 Controller, which quickly became a benchmark for the competition. We continue to lead the industry today with the fastest and most accurate bulk scale control systems available.

- Can be used in conjunction with any manufacturer’s bulk weigh or process hopper scale
- Accounting system integration, RFID tag recognition, grading and reporting
- Various options available for interfacing to PLC and plant HMI systems
- Multiple models available with various functionality to meet your specific needs and keep price within your budget

**DWC-400 Controller**

- Low cost, NTEP controller delivering 99.9% accuracy
- Good balance between price and performance
- Ideal for low to medium volume loadout applications, in-process weighing, inventory control and calculating production yields

**CD-4000 Controller**

- CompuWeigh’s most popular bulk scale controller
- Typically loads within 10 lbs. of target weight per rail car
- SmartTech pinpoints potential scale issues, where the problem is and how to fix it
- Adds ability to control flow of product out of lower garner gate

**GMS-400/GMS-4000 Workstation**

Upgrade your DWC-400 or CD-4000 to a GMS Workstation and receive the following benefits:

- Increase speed of weighing process
- SmartRead III RF rail tag reader
- Expanded report writing capabilities
- Integration with accounting
- Ability to operate multiple scales from a single GMS Workstation

**SmartRead III/SmartCar**

*SmartRead* rail car tag reading system eliminates the need to walk the track writing down car numbers and load limits, then having to re-enter this information into your control system.

The *SmartCar* database maintains the entire fleet of covered hopper and tanker cars in North America (approximately 1.2 million!). *SmartCar* automatically calculates the maximum amount of product that can be loaded into a railcar without overfilling or overloading.
CompuWeigh is the leading supplier of export house bulk weigh control systems in the industry with over 85% market share. This is due to our many years of experience providing powerful, flexible, easy to use software to these facilities. Because we have our own Automation Division we are even able to combine the integration of the scale control system with the monitoring of the flow path satisfying government inspectors and providing complete Weights Monitoring Capability.

**GMS-Multiple Scale Control**

For those facilities with more than one Bulk Weigh or Process Hopper Scale a GMS Multi-scale Workstation can be installed allowing up to eight different scales to be monitored from one central workstation.
Why purchase a CompuWeigh Bulk Weigh System?

When you purchase a CompuWeigh bulk weigh system, you are getting the unique benefit of a scale and scale control system that are configured to work together from day one to provide the fastest, most accurate system on the market. This means no questioning whether the scale components and control system will support each other and what parts from each are necessary to make the system operate as you expect. *CompuWeigh is the only company that designs both the control system and the scale.*

The bulk weigh scale systems are designed for continuous weighing of dry bulk materials from whole grains to fertilizer, seeds, meal, DDG, rice, sugar, salt, sand, and minerals.

**Standard Features**
- 3,500 to 120,000 bushels per hour (100 – 2,700 tph)
- Hydraulic operation
- Carbon steel construction with urethane finish
- Up to 120 drafts per hour
- Internally vented
- Lowest height in the industry reduces leg costs
- NTEP and Canadian Grain Commission approved

**Options**
- Pneumatic operation
- Stainless steel construction
- Upper garner extensions
- Hazardous area compliance
- Support towers
- Urethane, AR steel and ceramic tile liners
- Spouts
- Gamet® samplers
- Prefabricated control and grading operation rooms
Process Hopper Scales

CompuWeigh provides a wide range of accurate, high speed process scales that are well known for their ease in set up and consistent weighing results. These scales are ideal for in-plant process control, monitoring of inventory levels and low volume loadout and receiving applications.

Standard Features
- 12 - 216 tons per hour (400 - 7,500 bushel per hour)
- Pneumatic operation
- Carbon steel construction with painted finish
- Up to 240 drafts per hour
- Fully enclosed system
- Low height makes scales well suited for tight spaces
- NTEP approved

Options
- Hydraulic operation
- Stainless steel construction
- Upper garner extensions
- Hazardous area compliance
- Multiple PLC interfaces
- Commonly coupled with CompuWeigh’s DWC-400 controller

DWC-400 Controller
Enterprise Transportation System (ETS)

A sophisticated web based application which tracks both rail and barge traffic allowing for seamless Identity Preservation from the origination point where the commodities enter the facility until they are shipped to the customer’s destination. Developed in conjunction with the Enterprise Inventory System (EIS), each application can run separately, although for companies with any level of vertical integration there is a tremendous advantage of using both systems:

• Real-time monitoring of company’s entire owned and leased rail cars and barges
• Zoomable maps to precisely locate cars and barges and to track current itinerary
• Complete management of rail EDI (423s, 404s, etc.)
• Powerful query tools to quickly select information
• Total company IP management when used with EIS
• Web based Intranet system leverages a corporation’s existing security system
• Electronically receives scale ticket information from any accounting system to eliminate data entry

About CompuWeigh

For over 35 years CompuWeigh has been the leader in providing operational solutions to the grain industry. We introduced the first legal-for-trade computerized bulk weighing system and now provide a full line of complementary products that are required to run a modern grain facility:

• Our SmartTruck system handles all aspects of managing truck traffic from single scale systems to lights-out operation
• Our real time inventory system is specifically designed for operational staff so they always know the quantity and quality of every bin, as well as the optimum way to blend out of bins for enhanced profit
• Our Enterprise Logistics system enables staff to know where all their rail cars and barges are, with enhanced ETA information over publicly available information
• Our PLC/HMI automation systems control all the physical equipment to ensure that the facility is run efficiently and safely at all times

CompuWeigh is always looking for quality individuals to add to our team. Please inquire if you are interested in joining a dynamic company with a clear vision of the future.

www.compuweigh.com

Call us today: (203) 262-9400