



8100

PORTABLE, MECHANICAL, STEEL DECK TRUCK SCALES



Mechanical truck scales known for easy mobility and lasting reliability.

THURMANSCALE.COM



CC# 88-037



MC# AM-6004

8100

PORTABLE, MECHANICAL, STEEL DECK TRUCK SCALES

The 8100 is a uniquely designed truck scale that combines the proven, reliable performance of a mechanical lever system with a rigid, welded steel weighbridge structure. This scale has been field proven for years in demanding industries such as mining, road construction, quarries, logging, steel mills and landfills.

Portable or Permanent Installation

The 8100 motor truck scale can be installed as a portable scale (one that can be relocated easily at a later time), or as a permanent installation. For a permanent installation, pour the concrete piers and approaches, install the scale by locating and bolting the portability frame to the piers connecting the backbone pipes, then calibrate. In portable installations, concrete approaches are not required*; simply ramp fill material against the (optional) bulk-heads for the approach ramps. The remaining installation is identical to that of a permanent installation.

*NOTE: Check local Weights and Measures regulations to ensure that this type of installation is in conformance.

8100 Features

Weighbridge:

ASTM A-36 Steel Deck Design utilizes high strength steel plate mounted to structural steel beams that provide outstanding durability.

Lever & Suspension System:

The all steel lever system in conjunction with the ball bearing suspension result in an extremely durable scale which meets the stringent accuracy requirements of H-44. Each pivot and bearing system is protected from shocks generated by starting and stopping truck traffic through the ball bearing suspension. This system adds life to an already reliable scale.

Installation & Application:

The 8100 can be used as a portable scale or installed in a permanent foundation, making it extremely versatile. The applications are almost endless; however, you will find a majority of these scales in aggregate applications where strength counts.

Sizes & Capacities:

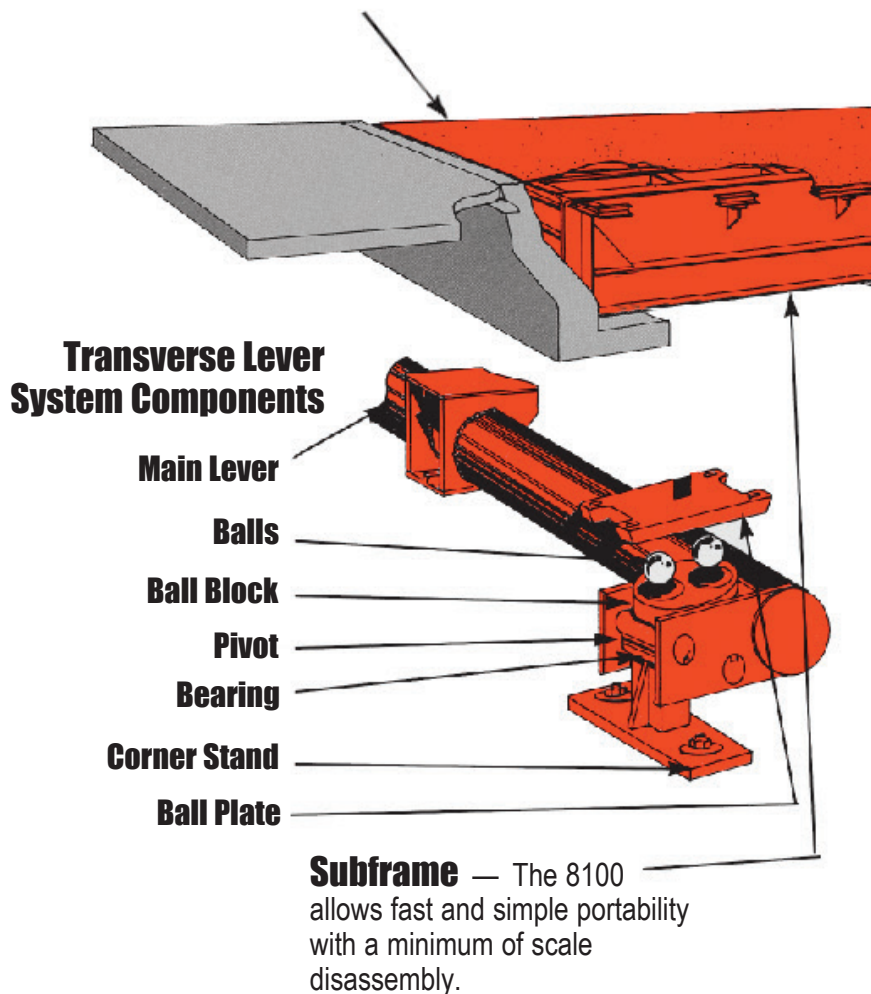
Standard lengths range from 25' to 80', with 10', 11' or 12' widths. Custom sizes are also available through Thurman Scale's Solutions services. Nominal capacities range from 50 to 135 ton with heavier capacities available.

Accessories:

Thurman offers a complete line of high performance electronic components ranging from advanced digital instruments and driver kiosks, to remote displays, traffic lights and printers.

The 8100's lever system is supplied with a transverse lever for use with digital truck scale instruments like Thurman's TS600 Series. TS600 instruments were specifically designed to meet the needs of truck weighing operations.

Structural Steel Weighbridge Design



Scale purchase includes:

- Steel deck weighbridge
- Sub-frame
- S-Beam load cell pillar
- Approach coping
- Anchor bolts (drilled type)
- One manhole per module

Scale options:

- Digital scale instruments
- Rub rails
- Bulkheads
- Deck runners
- Drop plates
- Blow down plates

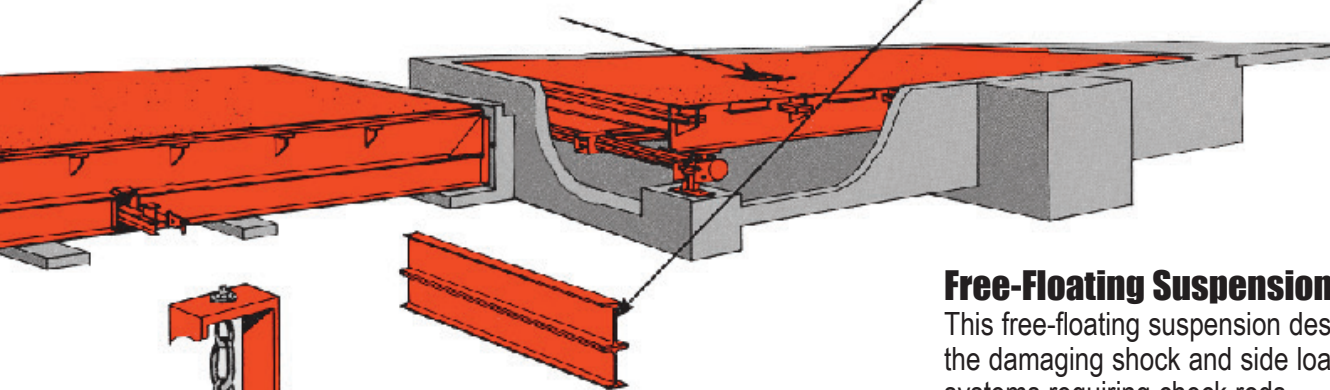


The 8100 module features a $\frac{3}{8}$ -inch tread plate deck, welded to a structural steel weighbridge, and ships as a self-contained unit. Optional rub rails are factory installed during module assembly.

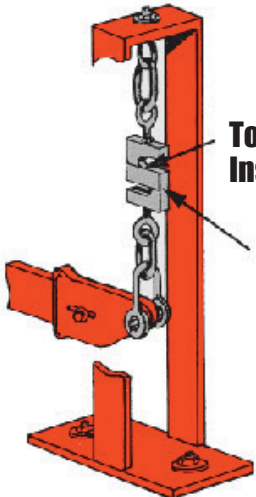


Bulkheads (Optional)
For temporary installations. Bulkheads are welded-on during manufacture.

Manhole Hatch



To Digital Weight Instrument

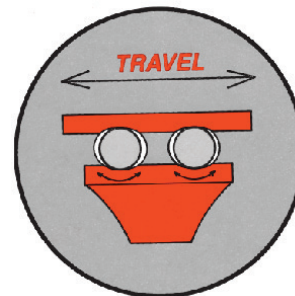


Electronic Conversion

Enjoy the speed and versatility of electronic weighing from your mechanical scale. Choose from a full line of Thurman digital instruments, printers, and load cells.

Free-Floating Suspension

This free-floating suspension design eliminates the damaging shock and side loads found in systems requiring check rods.



Energy Absorbing Suspension System

The Thurman ball bearing suspension system is a high performance, extremely reliable and accurate design that provides full 360° shock protection.

1. With the scale at rest, the ball bearings are centered in the ball blocks and ball plates. Only the downward force of the empty weighbridge is applied to the lever system.
2. The truck pulls onto the scale and stops, causing the ball bearings to roll up the radius of the ball blocks. This motion is transformed into a lifting force.
3. The lifting force is counteracted by the weight of the truck on the scale, absorbing the energy and causing the ball bearings to roll back towards the original position.
4. This motion absorbs the shock energy of the load and restores the scale to its original aligned state.



TS600 Desktop



TS600 DAT

The TS600 Series is Thurman's premiere line of truck scale instruments. Featuring three modes of operation, built-in traffic controls, multiple communication ports, and transaction export functions, the TS600 meets most weighing application requirements and comes in a desktop enclosure for operators and a driver kiosk for unattended weighing. Available with analog or Intalogix® (digital) load cell communications.

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EXPERIENCE THE POWER OF THURMAN

WE MAKE TOUGH SCALES FOR TOUGH JOBS

Thurman Scale offers one of the broadest lines of vehicle scales and heavy capacity weighing equipment on the market. Since 1918, Thurman has focused on building superior products and delivering complete customer satisfaction. That's why we believe you'll find Thurman to be the most valuable choice for all your vehicle weighing needs.



SPECIFICATIONS

Product assembly	Self-contained modules (Standard configurations feature 1 to 3 modules)
Sizes	25' x 10' to 80' x 12' <i>Custom sizes available</i>
Scale capacity	50-ton to 135-ton
Concentrated load capacity	70,000 lbs
Deck construction	Welded steel
Deck thickness	3/8 inch tread plate
Suspension	Self-restoring, ball bearing
Deflection	1/1350
Approach height	39.5"
Load cell type	Single S-Beam cell
Lever system	6" pipe
Approvals	NTEP CC# 88-037 MC# AM-6004
Options	Rub rails, rub rail cutouts, deck runners, drop plates, blow down plates
Communications	Choice of analog or digital Intalogix Technology for enhanced load cell monitoring and lightning/surge protection

ACCESSORIES

Scale instruments



Traffic lights



Safety stairs



Remote displays



Ticket printers



Custom software

Relay box
4-20 mA output
Keyboard

(800) 688-9741

Call between 8:00 a.m. – 5:00 p.m. Central Time
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