



**THURMAN**  
s c a l e

## **MODEL 8100 AND 8120 TRUCK SCALES**



*Mechanical Steel Deck*

*Portable Truck Scales*

*known for easy mobility*

*and lasting reliability.*



COC No. 88-037

# MODEL 8100 AND 8120 MECHANICAL TRUCK SCALES

## 8100 PORTABLE AND 8120 PIT DESIGN

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The Models 8100 and 8120 are uniquely designed truck scales, combining the proven, reliable performance of a mechanical lever system with a rigid, welded steel weighbridge structure. Each of these scale models have been field proven for years in demanding industries such as mining, road construction, quarries, logging, steel mills and landfills.

### **MODEL 8100** (Portable/Steel Deck)

The Model 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



The Thurman 8100 is a top seller, offering performance and reliability.

(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 insure that this type of installation is in conformance.

### **MODEL 8120** (Pit Scale/Steel Deck)

For permanent pit-type installations, the Model 8120 steel deck truck scale can provide years of reliable and accurate service. The weighbridge consists of factory assembled modules. Each module connects to the next module through a unique step-hinge arrangement. This eliminates the need for field welding and on-site fit-up.

### **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.

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

# MODEL 8100 AND 8120 PORTABLE TRUCK SCALES

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## MODEL 8100

### Weighbridge:

ASTM A-36 Steel Deck Design utilizes high strength steel plate mounted to structural steel beams, providing 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 Model 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 & Capabilities:

Standard lengths range from 15' to 105' with widths from a standard 10' to custom sizes. Nominal capacities range from 30 to 100 ton with heavier capacities available. The R-Factor rating varies from 1.32 to 3.53.

### Accessories:

Thurman offers a complete line of high performance electronic components ranging from advanced digital indicators and printers to remote displays.

## MODEL 8120

### Weighbridge:

ASTM A-36 Steel Deck Design utilizes high strength steel plate mounted to structural steel beams, providing 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 Model 8120 was originally designed as a pit scale, however, because of its built-in ruggedness, the scale is often utilized in above ground installations. This scale can be found weighing ultra-heaving offroad vehicles in steel mills, quarries and coal fields, as well as standard highway trucks.

### Sizes & Capabilities:

Standard lengths range from 15' to 105' with widths from a standard 10' to custom sizes. Nominal capacities range from 30 to 100 ton with heavier capacities available. The R-Factor rating varies from 1.32 to 3.53.

### Accessories:

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## WHY THURMAN SCALE?

Thurman Scale Company began manufacturing scales in Columbus, Ohio in 1945. During the past 50 years, Thurman has evolved into a scale company that offers one of the broadest lines of vehicle scales and heavy capacity weighing equipment on the market. Thurman Scale strongly believes that after sales support and service is as vital as building quality products. We at Thurman are dedicated to working with our extensive network of authorized distributors to assure our high quality standards remain after the sale. We are dedicated to providing our customers with superior products and service, proving Thurman Scale is the best choice for overall value and performance.

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Your Thurman Scale Authorized Representative is:

Call toll-free at:

**(800) 688-9741**

Call between 8:00 a.m. – 5:00 p.m. CST  
255 East Livingston Avenue • Columbus, OH 43215 • (614) 221-9077  
Internet Address: <http://www.Thurman.com>

