

NP SERIES Railcar Weighbridges

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DESCRIPTION

The NP Series weighbridge is a very cost effective solution to your railcar weighing application. Three standard 12'-6", 20'-0" & 26'-0" weighbridges provide the flexibility to efficiently accommodate both in-motion and static weighing. Coupled-in-motion (CIM) systems utilize a single NP1260 weighbridge, uncoupled-in-motion (UCIM) systems are typically handled with either an NP2000 or an NP2600 weighbridge and static systems use any pair of these weighbridges. Special order lengths up to 93'-6" are also available. Used in combination with SAI's standard instrumentation systems, the NP Series weighbridge is the economical solution for your certified weighing requirements.

The 15" scale height of the NP Series design offers the lowest profile available for railcar weighbridges. This configuration is ideal for an above grade installation which accommodates a simple and economical slab type foundation. This type of construction reduces your critical track downtime and rail traffic interruptions. This is an important item that needs to be considered when you calculate the total cost of the system.

In addition to its other built in features, the NP Series weighbridge is designed to withstand the rigors of daily railcar and locomotive traffic. This includes hermetically sealed, compression load cells, rigid checking, steel approach rail supports, massive base plates and heavy weighbridge beams. This equipment is built to last.

Compliance with the requirements of the various regulatory and governing bodies is of primary concern to SAI. With the installation of an NP Series weighbridge you can be assured that your system will be accepted for commercial railcar weighing purposes.



FEATURES

- **Three Standard Weighbridge Lengths** accommodate virtually every application and most car length combinations. Special order lengths are also available.
- **Lowest Profile Available** of any commercially manufactured railcar weighbridge. This design allows the construction of an efficiently designed, monolithic slab type, reinforced concrete foundation.
- **Standard Above Grade** configuration simplifies maintenance access and minimizes confined space issues. Open sides provide free flow ventilation and gravity water runoff. Sump pump requirements are eliminated.
- **Outboard Load Cell Design** reduces the transfer of wheel impact forces to the weighing system. The included load cell isolation kits provide additional impact dampening and electrical surge protection.
- **Rigid Weighbridge Checking** assures that rail and load cell alignments are maintained. This minimizes mitered rail end batter, extends load cell life and maintains long term system integrity.
- **Factory Assembled Weighbridge Modules** enable a quick and easy installation process. Upon delivery, the units are ready to be set in place. Installation can normally be completed in one day.
- **Designed Per AAR/AREMA Specifications** for Cooper E-80 loading. Complies with the requirements of all major railroads. Heavy capacity, Cooper E-100 designs are available as a standard option.
- **NTEP Approved** since 1988 (current CC #88-084A1). Meets all NIST Handbook-44 railcar weighing requirements for Class III devices.
- **Complete Weighing System** is the standard equipment package provided by SAI. This includes site specific documentation, embedded anchors, rail attachment components, system accessories and the appropriate static or in-motion instrumentation.

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STANDARD MODELS

Model	Weighrail	Sections	Capacity*	Assem. Wt.
NP1260	12'-6"	2	85T	9,900 lb.
NP2000	20'-0"	3	170T	14,200 lb.
NP2600	26'-0"	3	170T	17,400 lb.

Weighbridge lengths ranging from 39'-6" to 93'-6" are available on a special order basis. Contact the factory for details.

SPECIFICATIONS

Design: Cooper E-80* live load/F_b 10 KSI *

Section Cap: 85 tons*

Material: ASTM A-36 steel w/ A-325 hardware

Surface Finish: Industrial grade gray enamel

Load Cells: 100,000 lb. compression/hermetically sealed
Stainless steel construction
NTEP CC #91-001A3

Foundation: 4,000 PSF*/Cooper E-80 live load*

* Design criteria and rated capacities are based on AAR specifications

SYSTEM COMPONENTS

Factory assembled weighbridge module
Load cells, bearing kits & isolation kits
Base plates & anchor bolts
Approach rail support beams
Rigid checking assembly
Removable safety steel deck plates
Rail attachment hardware

STANDARD ACCESSORIES

Approach rail plates & anchor bolts
Rail clips & anti-creep rail anchors
Shallow pit deck covers

EQUIPMENT & DESIGN OPTIONS

Cooper E-100 weighbridge design
200,000 lb. cap. load cells
Galvanized surface finish
Rails (115# RE min.) w/ mitered ends
Pandrol® rail fastening systems
Custom foundation designs

TURNKEY INSTALLATIONS

Delivery of the complete SAI equipment package to your facility is only the first step in weighing railcars. A significant portion of the project still remains to be completed. This includes the foundation construction, equipment installation, electrical work and system startup.

SAI is also your source for a complete turnkey installation. This would typically include soil preparation, concrete foundation construction, weighbridge assembly & installation, rail installation, grouting and electrical work. We'll also complete the system startup and assist with the certification process. After the system is up and running, we'll conduct an informal training session for your operations and maintenance personnel.

Generally, every site will have different requirements. This could include a foundation support system such as piling or caissons, some track reconstruction or a trackside equipment building, just to name a few. Whatever the specific requirements of your site may be, SAI has the capabilities and expertise to handle them.

All SAI turnkey projects are supervised from start to finish by one of our expert field engineers. In addition to keeping the work on schedule and assuring the proper installation, our field engineer will also act as a local liaison with your staff. Day to day issues and concerns are quickly resolved with this on-site presence.

A complete SAI equipment and turnkey package assures you that the final product will provide the most accurate and reliable railcar weighing system possible.



Specifications subject to change without notice
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