

# SmartBridgeAxle

Axle Weighbridge software



Version 1.2.0.545

Axles Weighing Process Highlights

[issamsoft.com](http://issamsoft.com)

## Preface

This documentation is just to highlight the axle weighing process in the software, for more in-depth information about this software (installation, settings ...etc) you can refer to [SmartBridge Professional documentation](#) which could be downloaded from the [product page](#).

SmartBridgeAxle is the SmartBridge edition for axle weighbridges, this edition has been built on top of SmartBridge Professional edition version 4.2 so; this edition inherited all the features of the professional edition. Although we disabled some of these features because it has no use in the axles weighing process. This version of SmartBridge is designed to work with in-motion axle weighbridges. The software can calculate and save the axle weight in-motion; the vehicle doesn't have to stop over the weighbridge.



## Process type settings

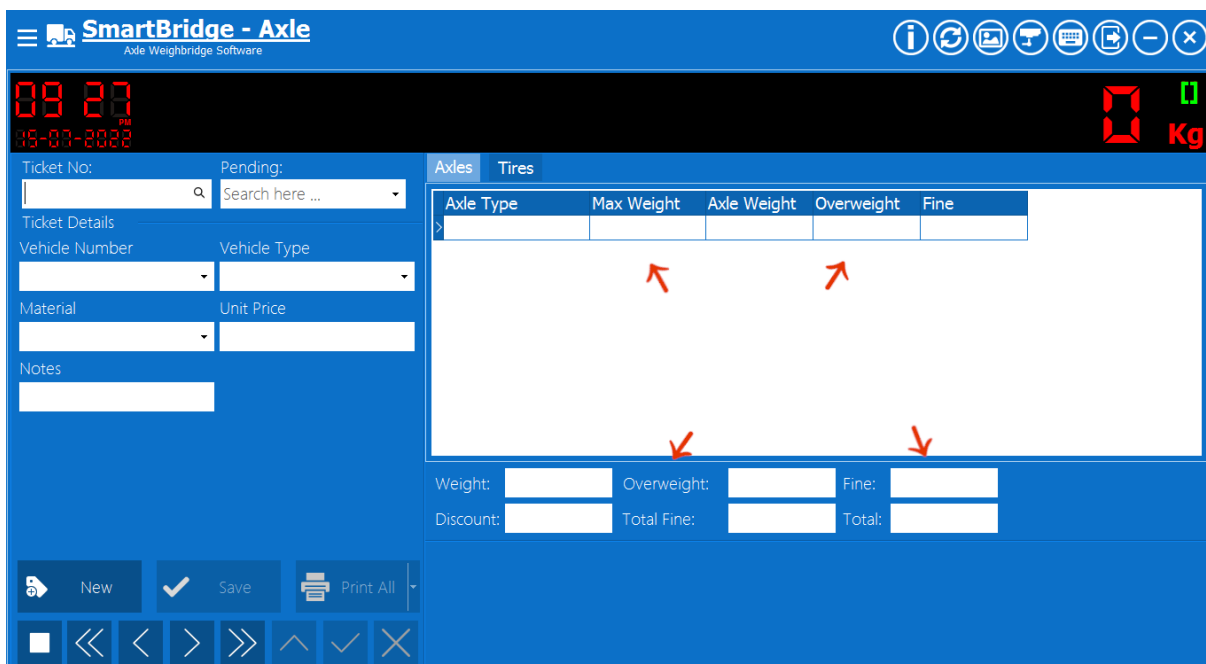
You can use this software in two ways:

- 1- Calculate the overweight of vehicles using pre-entered max/allowed weight for each axle.
- 2- Calculate the net weight of vehicles using manually entered tare weight.

You can set the process type in the Settings screen, Axle section.



The Operation screen will have different layout depending on the process type you choose, for example if you set the process type to “Calculating Overweight Fine” the Operation screen will show extra fields for the overweight and for the fine.



And if you set the process type to “Calculating Net Weight”, the Fields “Net Weight” and “Total Material Price” will be shown on the Operation screen.

**SmartBridge - Axle**  
Axle Weighbridge Software

09:39  
15-07-2022

Ticket No:  Pending:

Search here ...

Ticket Details

Vehicle Number:  Vehicle Type:

Material:  Unit Price:

Notes:

Axles Tires

Axle Type	Axle Weight
>	

Weight:  Net Weight:

Material Total Price:

New Save Print All

Navigation icons: back, forward, search, etc.

## Values margin

This value is important for calculating the weights of the axles and we recommend not changing the default value -which is 5- before consulting with us.

Application

☐ Bypass Login screen

Barcode Settings ...

Axles

☒ Show tires weights in process screen

Process type

Calculating Netweight

Values margin

5

## Axles screen

Using the Axles screen you can enter and register the Axle types and the Vehicle types for later use.

SmartBridge - Axle  
Axle Weighbridge Software

Operation  
Clients  
Drivers  
Axles  
Vehicles  
Materials  
Warehouses  
Reports  
Users  
RFID  
Options  
Settings

Pending:  Search here ...

Vehicle Type:

Material:

Notes:

Axles Tires

Axle Type	Axle Weight
>	

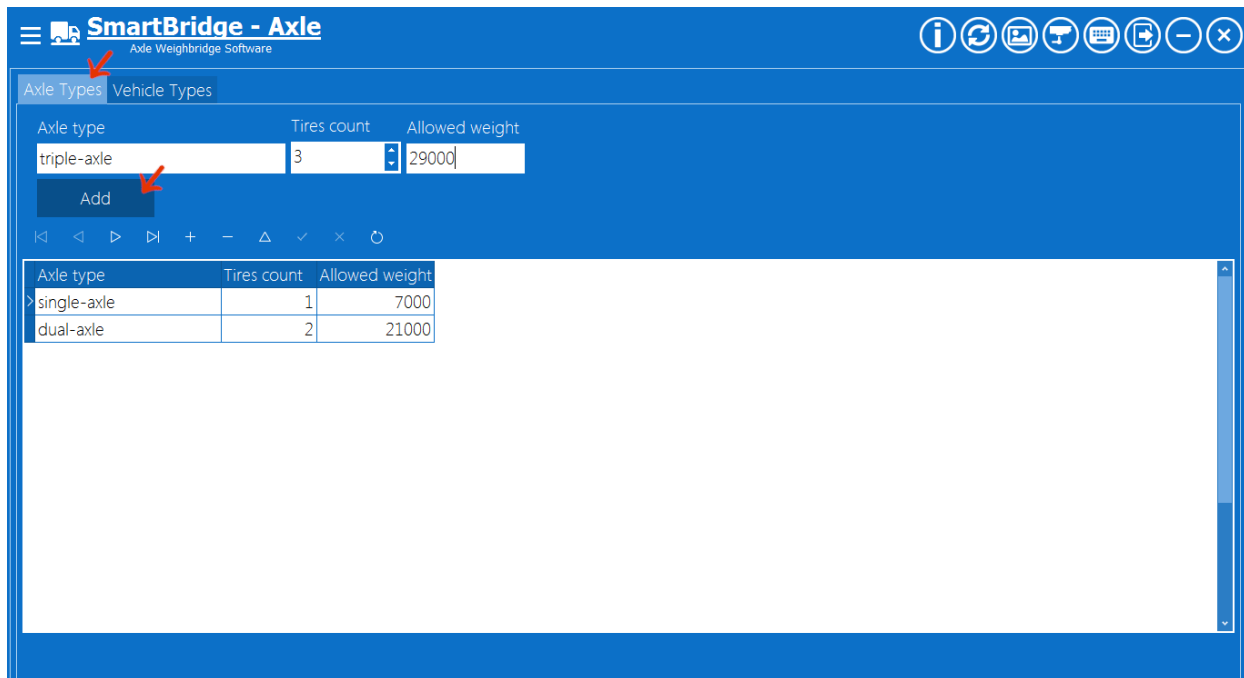
Weight:  Net Weight:

Material Total Price:

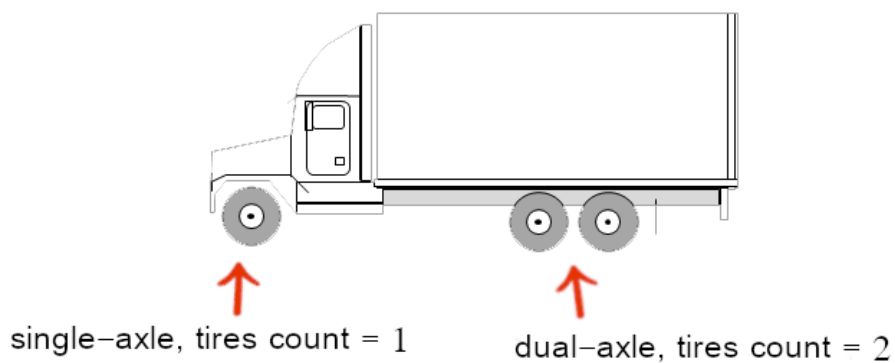
Save Print All

> >> ^ v X

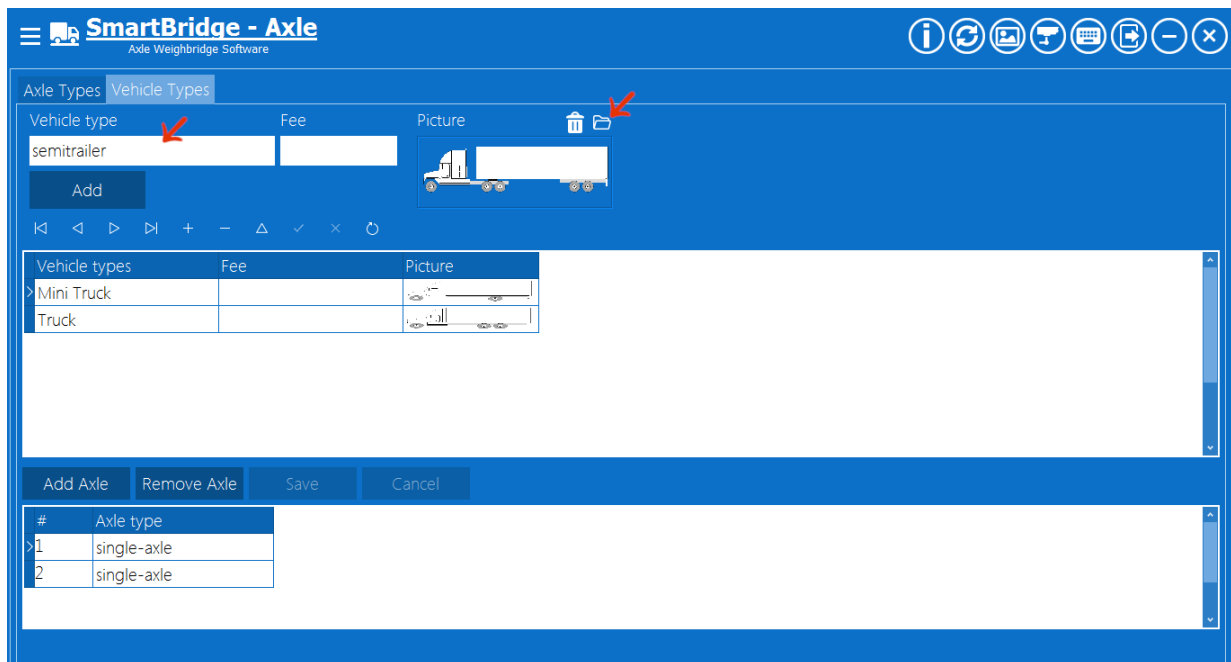
This screen has two tabs, In the Axle Types tab you can enter the types of axles that you want to work with. If you set the Process type to “Calculating overweight fine” as we described before, then also you should enter the max allowed weight of each axle type, the software will calculate the fine when the axle weight exceeds the max allowed weight of the axle using the fine slices as we will see later.



The next image explains the meaning of the wheels/tires count.




In the Vehicle tab you can insert and register vehicle types; these registered types will be available in the operation screen so user can choose from these types, each type should have different set of axles, you can also link each vehicle type to a symbolic image that shows the vehicle body and axles. We include some vehicle images inside the zip file that includes the software installer; you can use these vehicle images here.





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Axle Weighbridge Software

Vehicle Types

Vehicle type: semitrailer Fee: Picture: 

Add

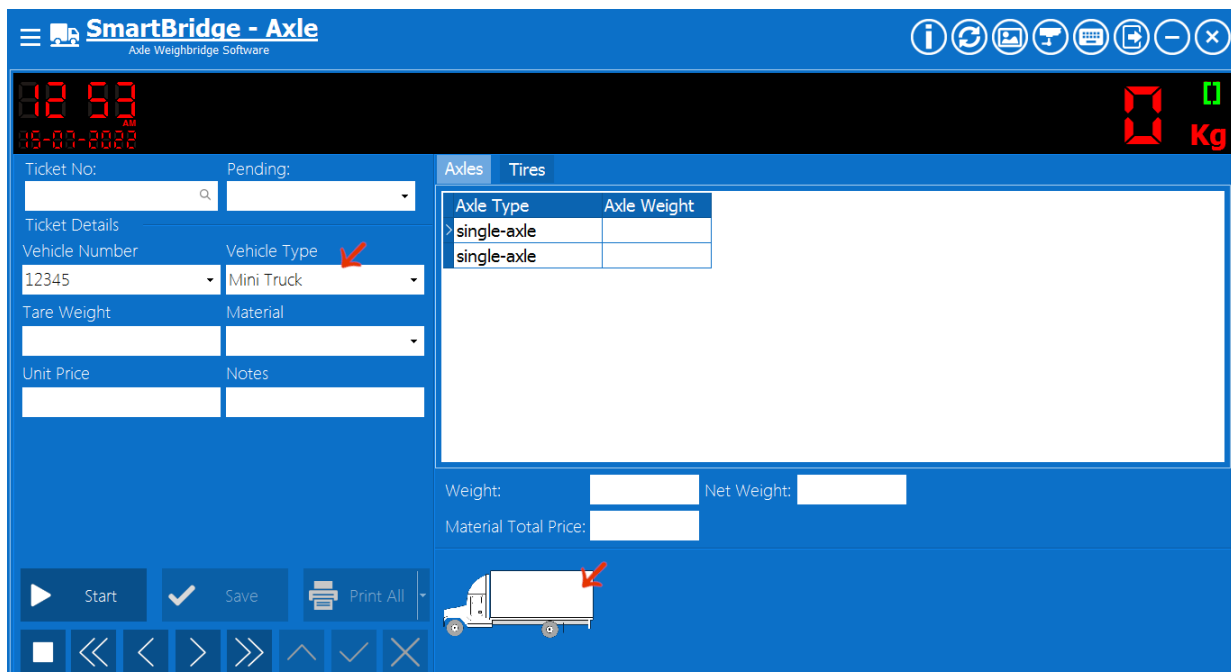
Vehicle types Fee Picture

Vehicle types	Fee	Picture
> Mini Truck		
Truck		

Add Axle Remove Axle Save Cancel

#	Axle type
> 1	single-axle
2	single-axle

This image will be shown on the Operation screen each time you select the linked truck type.



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Axle Weighbridge Software

12:53  
19-07-2022

Ticket No: Pending:

Ticket Details

Vehicle Number: 12345 Vehicle Type: Mini Truck

Tare Weight: Material:

Unit Price: Notes:


Axles Tires

Axle Type	Axle Weight
> single-axle	
single-axle	

Weight: Net Weight:

Material Total Price:

Start Save Print All



After saving the vehicle type you have to enter the axles that exist in this vehicle type, and to do so, select the vehicle type and press “Add Axle”, press the button inside the axles grid to select the axle type from the list of axle types you entered

in the previous step, repeat this until finishing all axles in this vehicle type. It's very important to enter the axles in the same order from the vehicle front to the vehicle back; adding the axles in a wrong order will lead to errors in the weighing process.

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Axle Weighbridge Software

Axle Types Vehicle Types

Vehicle type Fee Picture

Add

Vehicle types Fee Picture

Vehicle types	Fee	Picture
Mini Truck		
> semitrailer		
Truck		

Add Axle Remove Axle Save Cancel

# Axle type

\*

SmartBridge - Axle  
Axle Weighbridge Software

Axle Types Vehicle Types

Vehicle type Fee Picture

Add

Vehicle types Fee Picture

Vehicle types	Fee	Picture
Mini Truck		
> semitrailer		
Truck		

Add Axle Remove Axle Save Cancel

# Axle type

1	single-axle
2	dual-axle
*	dual-axle



If you are using the software to calculate the overweight of the axles, you need to set the fine slices. Press the button “Fine Slices” to show the Fine Slices dialog.

The 'Fine Slices' dialog box is open, showing a table with the following data:

From Weight To Weight	Fine
1010	2800
2010	4800
3010	5800
4010	9800

The 'Fine Slices' button in the main interface is highlighted with a red arrow.

Also if you are using the software to calculate the overweight fine you can set a fine discount as percentage value.

The 'Axles' section of the software interface is shown. The 'Fine Discount (%)' field is highlighted with a red arrow.

This discount will be used for all tickets; however you can override the fine discount for specified materials if you want. In the Material screen you can set the discount and the truck fee for each material, the software will use the material discount and truck fee if presented otherwise it will use the general values that pre-entered in the Settings and in the Axles screens.

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Material Discount (%) Truck Fee Code Price

Material Fine Discount (%) Truck Fee CODE Price

Iron		4500	3	
Wood	2		2	

## Zero reference

It's important to set the zero reference that the software will use; this value represents the weight of the empty bridge/scale. You can set this value to zero or to any value above zero. In some windy conditions the empty bridge/scale could read 10Kg or may be more so, it's recommended to set the zero reference to 10Kg or more depends on the sensitivity of the scale/indicator and the weather conditions. You can change the zero reference in the Option screen, in the Weight section.

Weight

Default weight  
Tare Weight Apply

Zero reference  
10 Apply

## The weighing process

After configuring all the previous settings, you can now start using the software for weighing and saving tickets. The Operation screen is used for the weighing process. To create a new ticket, press the New button, the vehicle should be outside the axle weighbridge and ready to move.

**SmartBridge - Axle**  
Axle Weighbridge Software

10:00  
15-03-2022

Ticket No:  Pending:

Ticket Details

Vehicle Number:  Vehicle Type:

Material:  Unit Price:

Notes:

Weight:  Net Weight:

Material Total Price:

**New** Save Print All

Navigation icons: << < > >> ^ v X

Axle Type	Axle Weight
>	

Fill the vehicle plate number and the vehicle type, after selecting the vehicle type the software will show the axles that exist in this type.

**SmartBridge - Axle**  
Axle Weighbridge Software

10:28  
15-03-2022

Ticket No:  Pending:

Ticket Details

Vehicle Number: 12345 Vehicle Type: Mini Truck

Material:  Unit Price:

Notes:

Weight:  Net Weight:

Material Total Price:

**Start** Save Print All

Navigation icons: << < > >> ^ v X

Axle Type	Axle Weight
> single-axle	
single-axle	


Truck icon

Fill all the information required in the ticket and when you are ready press the Start button and tell the vehicle driver to drive the vehicle slowly over the weighbridge. You will notice a flashing warning symbol on the black screen next to

the clock which indicates the weighing process is ongoing. After all axles passed over the weighbridge and the after the weight value returns back to zero –or to the zero reference– press the Finish button.

Note: the time between pressing the Start button and pressing the Finish button should not be more than 5 minutes. That is mean the vehicle has 5 minutes to pass over the scale after you press the Start button. The software will cancel the ticket automatically after 5 minutes.

Axle Type	Axle Weight
> single-axe	
single-axe	

After pressing the Finish button the software will show the axles weight. You can save the ticket by pressing the Save button. To cancel the ticket you can press the  cancel/stop button and nothing will be saved.

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Axle Weighbridge Software

11 10  
15-07-2022

Ticket No:  Pending:

Ticket Details

Vehicle Number: 12345 Vehicle Type: Mini Truck

Material: Wood Unit Price: 15

Notes:

Axles Tires

Axle Type	Axle Weight
single-axle	2400
> single-axle	3200

Weight: 5600 Net Weight: 5600

Material Total Price: 84000

Finish Save Print All

Navigation icons: Home, Back, Forward, Next, Previous, Confirm, Cancel

If you set the process type to “Calculating the net weight” you can add a field for the tare weight so user can fill it manually and the software will use the value in this field to calculate the net weight.

Weight Fields

Available Fields

- Fee
- Vehicle Notes
- Client Code
- Vehicle Type
- Fine Discount (%)
- Truck Fee
- Tare Weight

Used Fields

- Vehicle Number
- Vehicle Type
- Material
- Unit Price
- Notes

Apply Select required fields

**SmartBridge - Axle**  
Axle Weighbridge Software

07:45  
18-03-2022

Ticket No:  Pending:

Ticket Details

Vehicle Number: 12345 Vehicle Type: Mini Truck

Material:  Unit Price:

Tare Weight: 2000 Notes:

Axle Type	Axle Weight
single-axle	2400
> single-axle	3200

Weight: 5600 Net Weight: 3600

Material Total Price: 0

Finish Save Print All

Navigation buttons: << < > >> ^ v X

## Edit saved tickets

You can allow editing on the saved tickets; you can give this privilege to the user role you want. In the Settings screen and on the Operation section change the setting “Edit saved tickets”.

☐ Auto detect Tare/Gross weight  
☐ Fixed tare weight for new vehicles  
 Edit saved tickets:  
 Admin Only  
 Not Allowed  
 Admin Only  
 Admin and Manager  
 All Users  
 Not Allowed

When editing is available for user the edit button will be enabled for the saved tickets like in the next image.

