




Operator Manual

Homebase 4

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1 Information

	NOTE
	Notes, usage tips or additional information.
This font	Indicates a physical button to press
<i>This font</i>	Indicates emphasis
[This font]	Indicates a software button to click

2 System description

2.1 Introduction

Homebase 4 serves as a software platform for wheel alignment systems. Customer, order, user, vehicle and measurement information is stored and edited in Homebase. Backup, restoring and updating of Homebase is performed in the database manager.

The Homebase system plug-ins:

- I-track II (Wheel alignment)
- Cam-aligner (Wheel alignment)
- Tire Manager (Tire management, TreadReader)
- Frame measurement

2.2 System requirements

Item	Requirement
Operating system	Windows® 10
Other software requirements	Administrator rights during installation and registration of the software.
Cam-aligner requirements	1 x USB port Wireless server (Note: This is included in complete measuring kits). Wireless server driver must be installed prior to software installation.
I-track II requirements	At least Bluetooth 4.0 (LE) built in, or 1 x USB port for JOSAM Bluetooth module (Note: This is included in complete measuring kits).
TreadReader (Tire Management)	At least Bluetooth 4.0 (LE) built in, or 1 x USB port for JOSAM Bluetooth module
CPU	64-bit CPU is required. Recommended: <ul style="list-style-type: none">• Intel 8th generation processors (Intel i3/i5/i7/i9-7x), Core M3-7xxx, Xeon E3- xxxx, and Xeon E5-xxxx processors• AMD 8th generation processors (A Series Ax-9xxx, E-Series Ex-9xxx, FX-9xxx)• ARM64 processors (Snapdragon SDM850 or later)
RAM	At least 4 Gigabyte (GB) of RAM required. 8 Gigabyte (GB) or higher recommended.
Hard disk space	20 Gigabyte (GB) of available hard disk space.

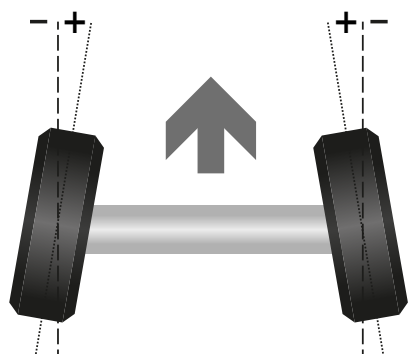
Item	Requirement
Graphics	WXGA (1366 x 768) or higher resolution video adapter and monitor.
Input devices	Keyboard and Mouse or compatible pointing device.
Other	1 x USB port for software installation. Internet connection required when registering license and for remote support.

Download the latest software version from www.josam.se/support/

2.3 Wheel angle definitions

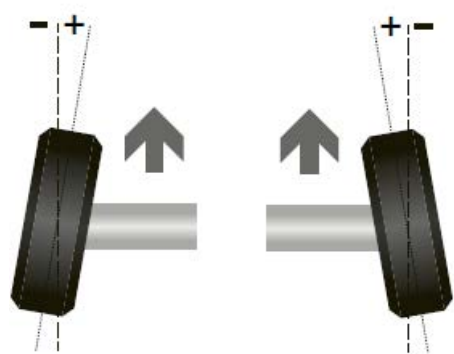
Wheel angles

Total Toe

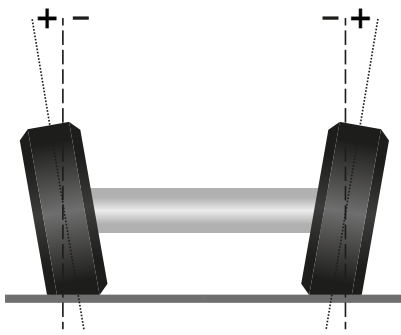


The angle of the horizontal lines drawn through the wheels of the same axle, from a top view

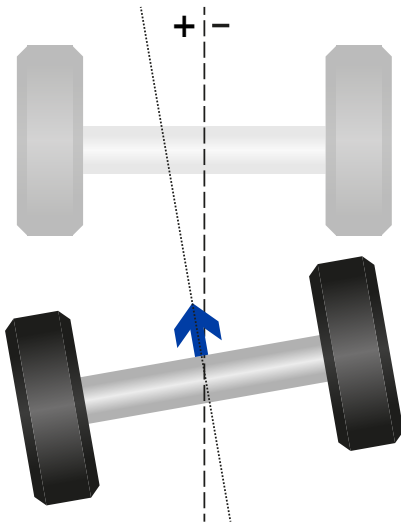
Individual Toe



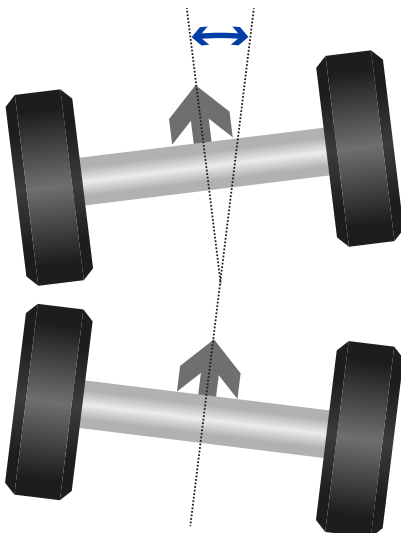
The angle of a horizontal line drawn through the wheel in relation to the measurement reference line, from a top view.

Camber


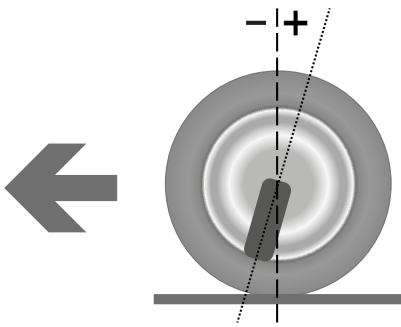
The angle of the wheel relative to vertical, as viewed from the front or the rear of the vehicle.

Out of Square (EU) / Thrust Angle (US)


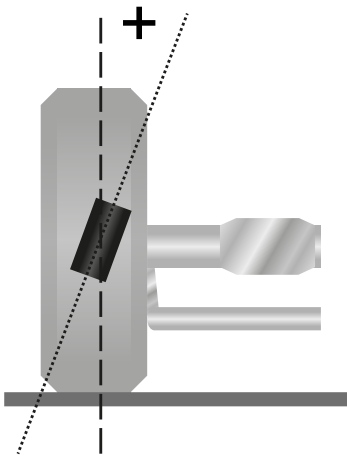
The thrust angle of the driven axle in relation to the measurement reference line.

Parallelism (EU) / Scrub angle (US)


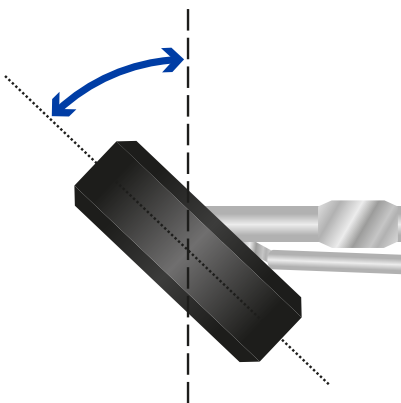
The angle formed by the thrust line of the measured axle and the thrust line of a reference axle.

Caster

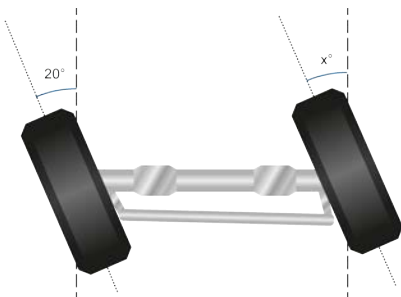
The angle of the axle in relation to the vertical, as viewed from the side of the vehicle.

KPI (King pin inclination)

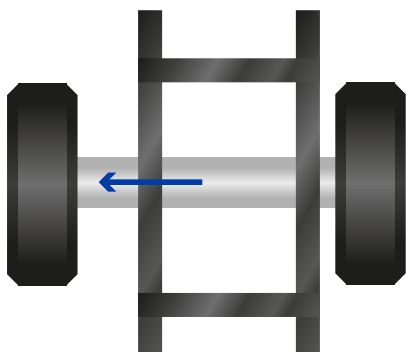
The angle of the king pin relative to vertical, as viewed from the front or the rear of the vehicle.

Max turn (EU) / Lock to lock (US)

The angle of the wheel relative to the measurement reference line when the wheel is turned to its maximum outwards.

TOOT (Toe out on turns)

The angle difference between the inner wheel and the outer wheel when the inner wheel is angled at 20°.

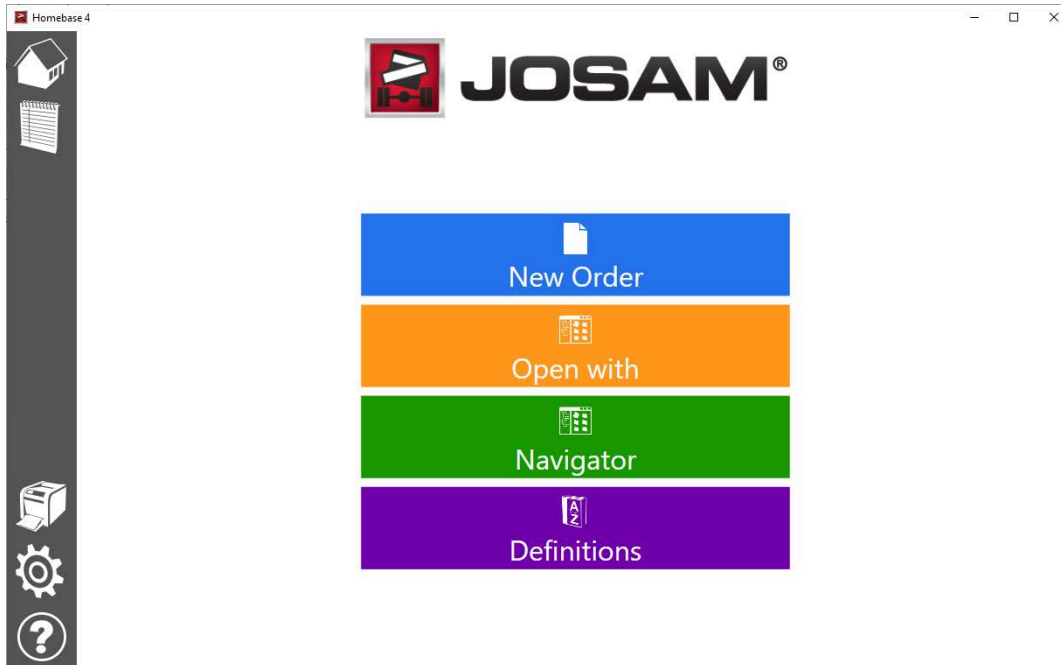
Offset

When the axle is offset from the chassis.

3 Homebase start



Click on the Homebase Icon to start the Homebase software.



New Order:

Used to create new orders.



Navigator:

Used to access the order administration menu, customer administration menu, vehicle administration menu, employee administration menu and order deletion menu.



Open with:

Used to access the choice of applications screen, and select the application to open the current order with.



Definitions:

Used to access the Axle, Tire and Frame configurations.



Home:

Return to the start window, Home



Comments:

Add or edit a comment to the current order



Print:

Used to print and preview reports.



Settings:

Used to access the Workflow, Reports, Units, Equipment, Communications, Customizing and Licenses registration menus.

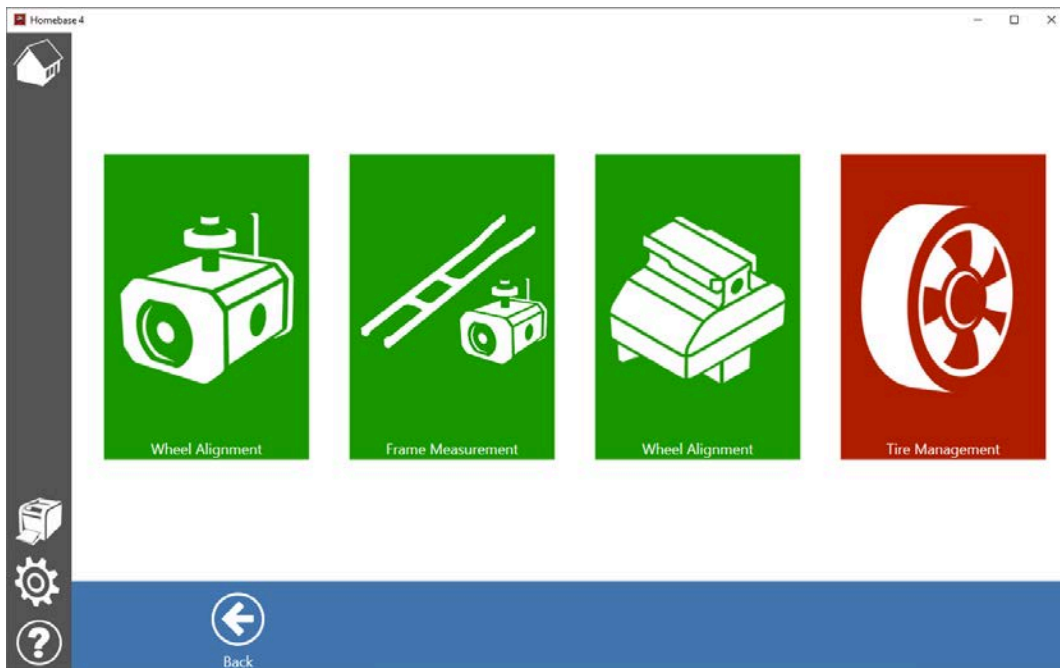


Help:

Used to access the instruction manual

4 New order

To create a new order click on the **[New order]** in the start screen.



The list of plugins may vary depending on the installation.

The software will display the choice of applications for:



Camera wheel alignment (Cam-aligner)



Frame measurement



Laser wheel alignment (I-track II)

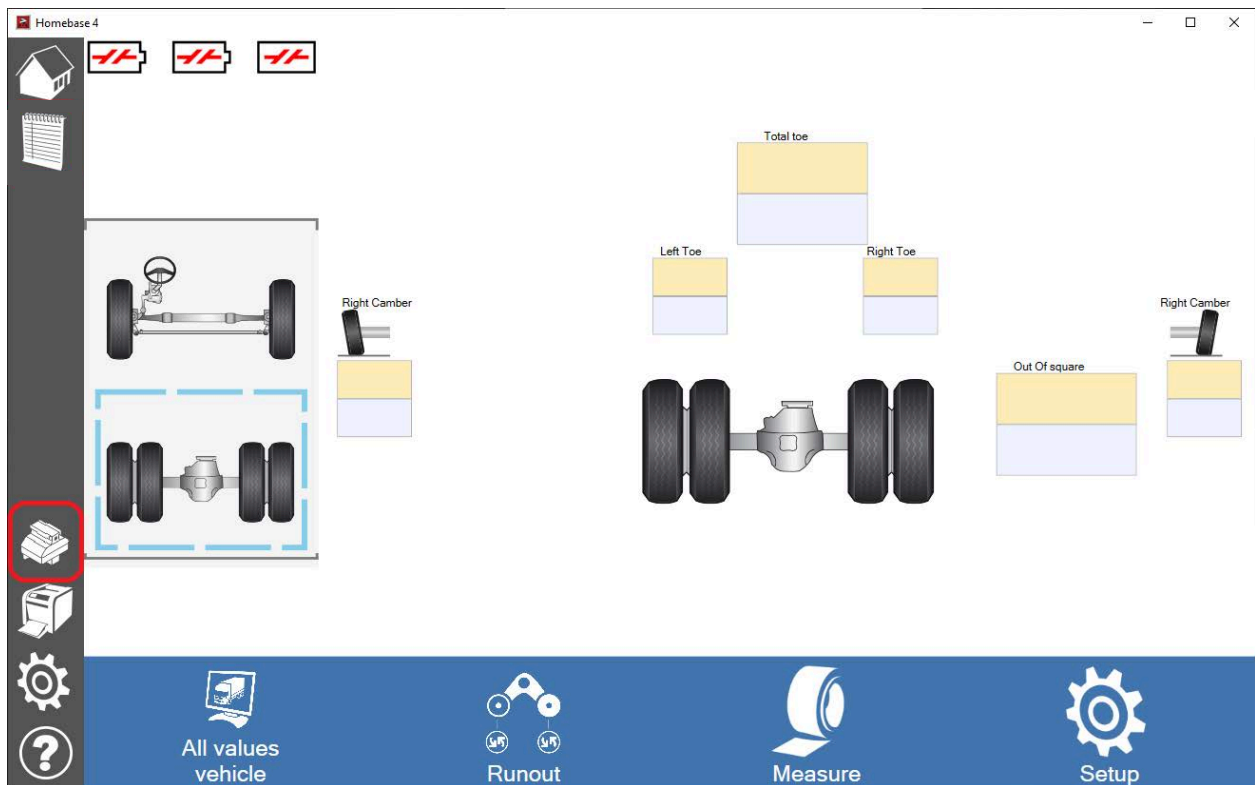


Tire Management Click on the application you want

Click on the application you want to use for the new order.

For more information on how to proceed see respective user guide.

When an order has been saved an icon of the plugin is visible in the left toolbar, see icon marked in red.



Camera wheel alignment:

Will navigate to the current order



Frame measurement:

Will navigate to the current order



Laser wheel alignment:

Will navigate to the current order

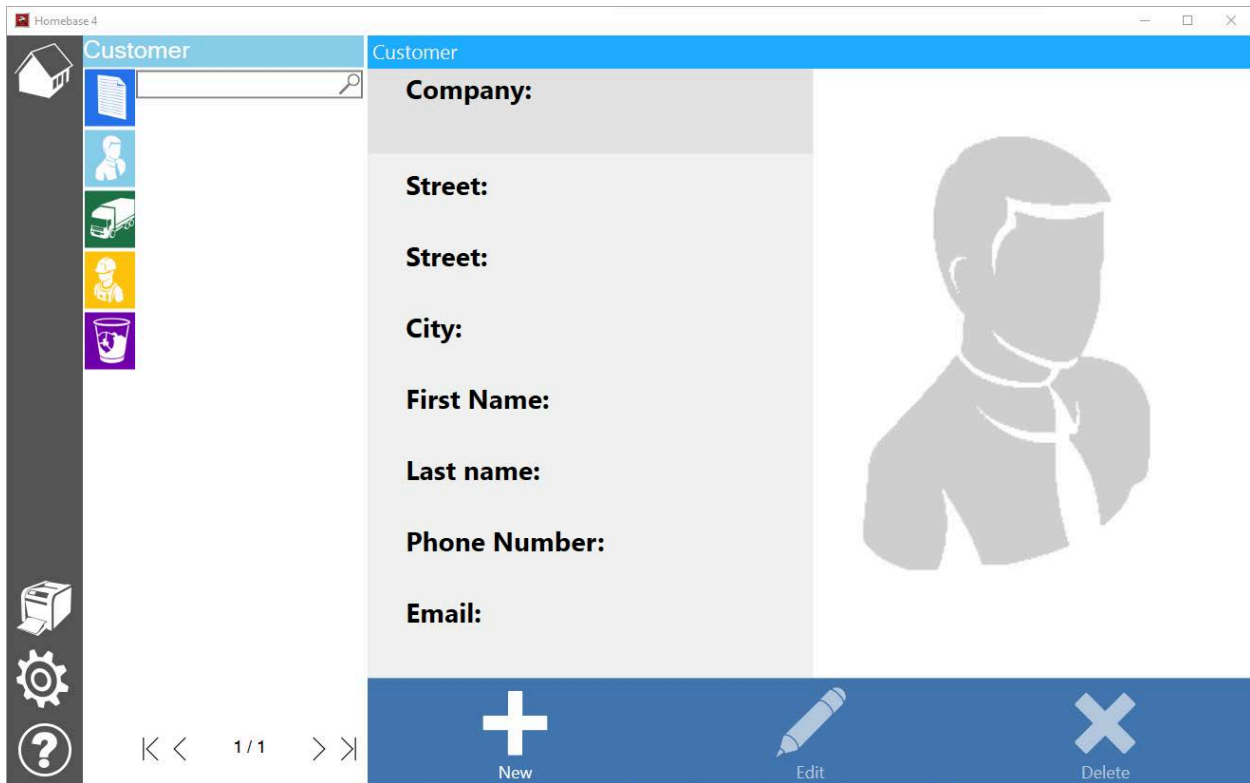


Tire management:

Will navigate to the current order

5 Navigator

Navigator serves as the administrator of the database.
Press on **[Navigator]** in the Start Menu to access the Navigator menu.



Navigator window is displayed.



Order information.



Customer information.



Vehicle information.



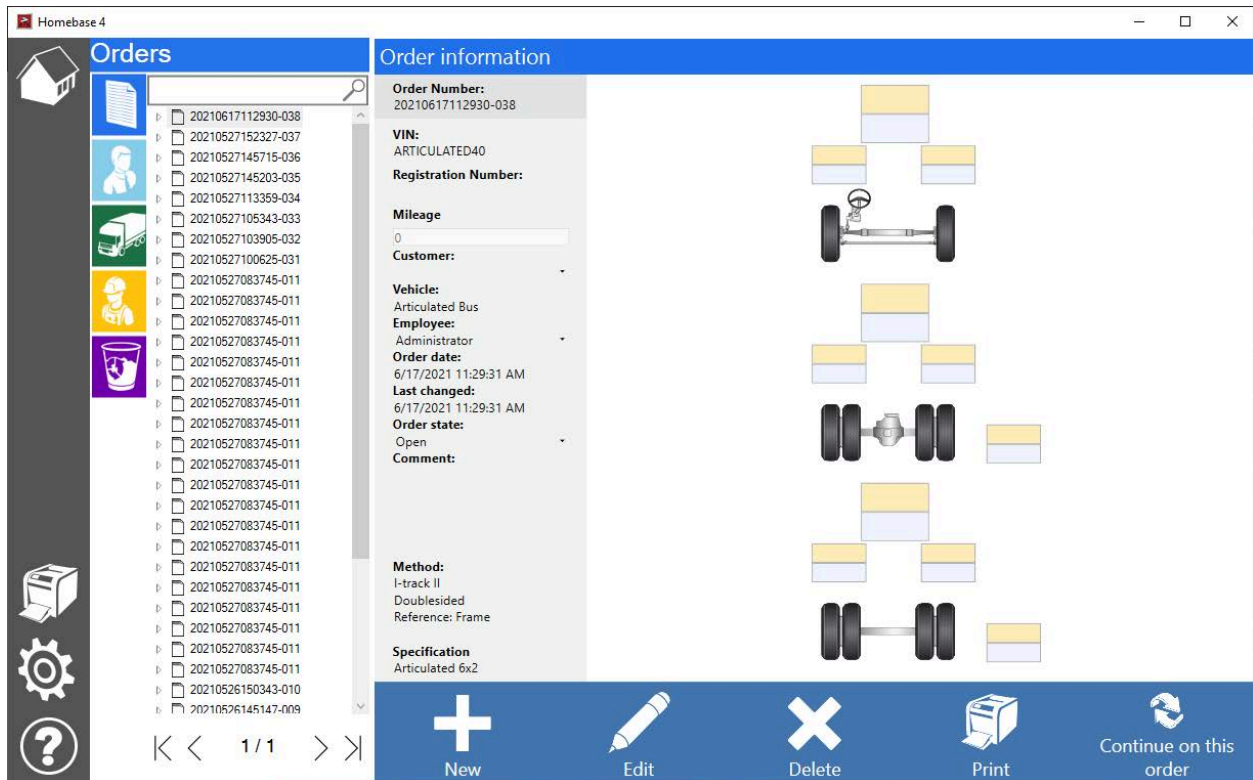
Employee information.



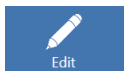
Deleted orders.

5.1 Order information

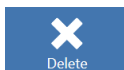
The order information window displays information regarding existing orders. All orders are created and stored in the database.



Create a new order



Edit an existing order:
(Only accessible if the administrator rights function is enabled).



Delete an order:
(Only accessible if the administrator rights function is enabled).



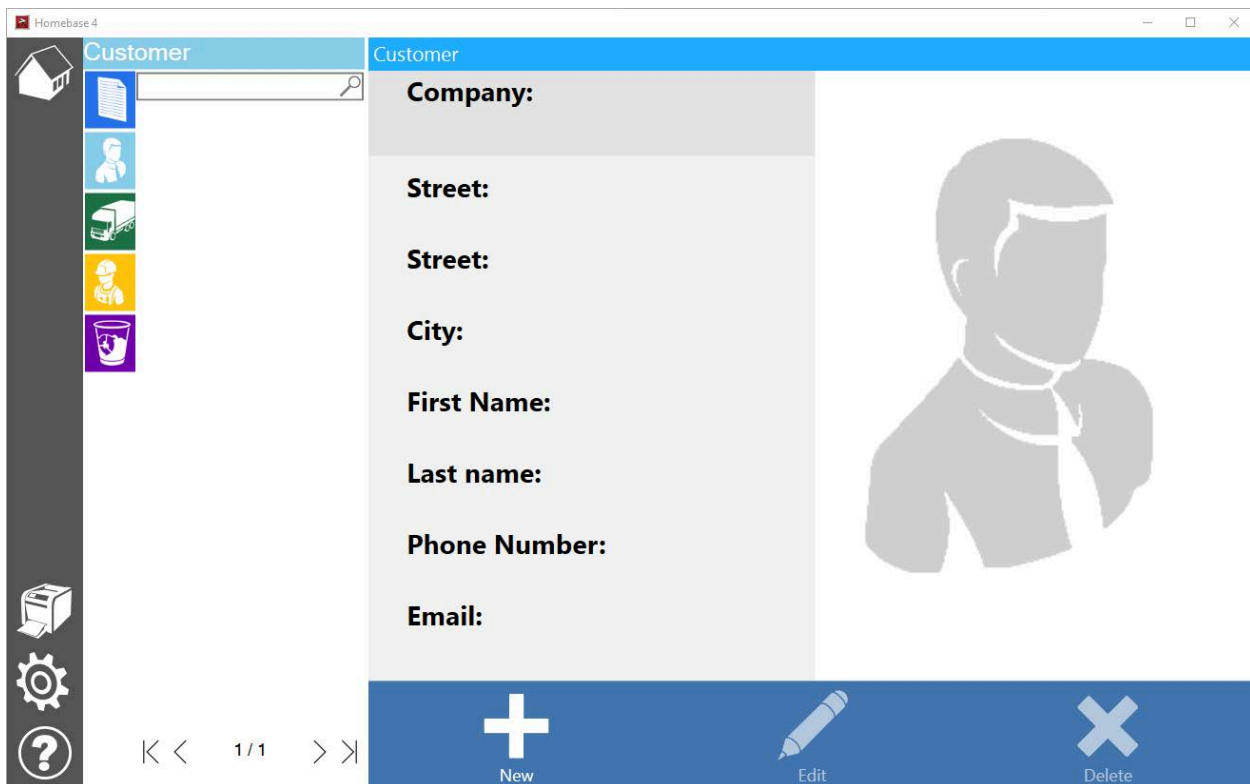
Print an order.



Continue an order.

5.2 Customer information

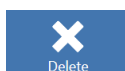
Displays all information regarding existing customers.

A screenshot of the 'Homebase 4' software interface. The window title is 'Homebase 4'. The main area is titled 'Customer' and contains a form with the following fields: 'Company:', 'Street:', 'Street:', 'City:', 'First Name:', 'Last name:', 'Phone Number:', and 'Email:'. To the right of these fields is a large placeholder image of a person in a suit. On the left side of the window is a vertical toolbar with icons for a house, a document, a person, a truck, a hard hat, a trash can, a printer, a gear, and a question mark. At the bottom of the window is a blue bar with three buttons: a white plus sign labeled 'New', a white pencil icon labeled 'Edit', and a white X icon labeled 'Delete'. Navigation arrows and a '1/1' indicator are also present in the bottom left of the main area.

Create new customer information



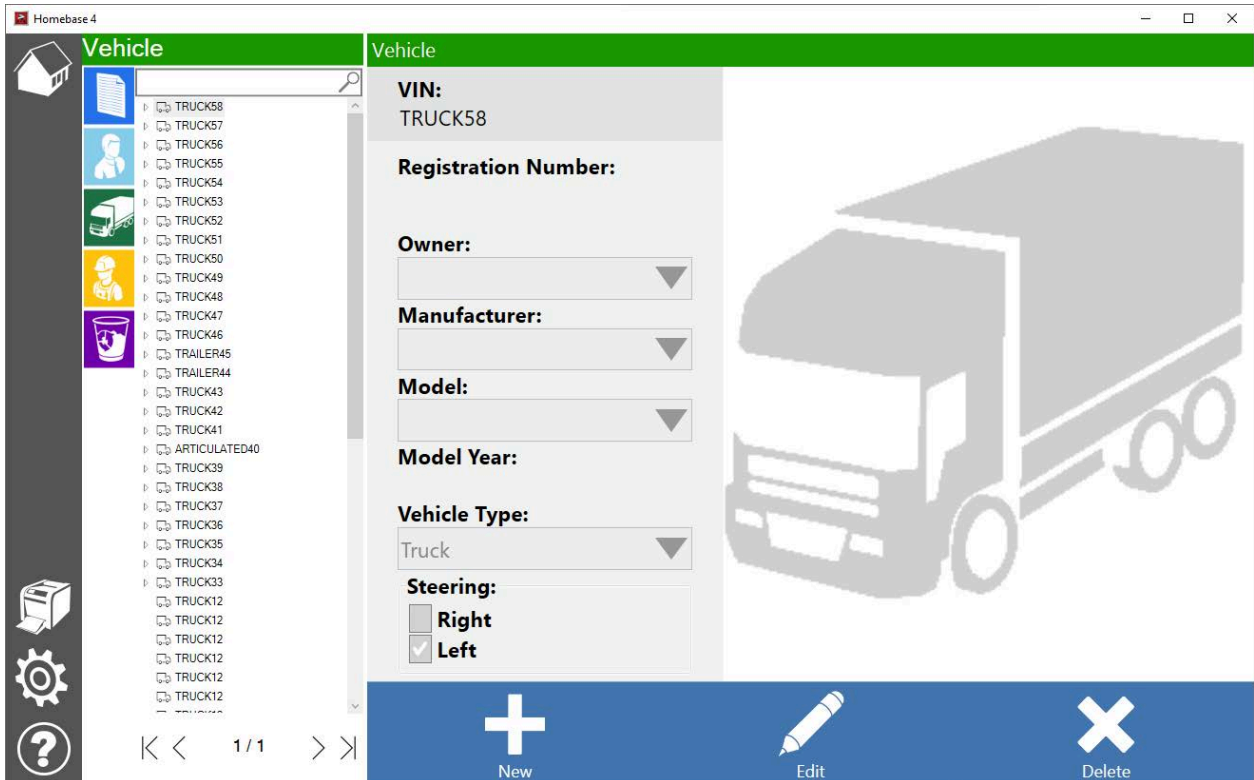
Edit an existing customer:
(Only accessible if the administrator rights function is enabled).



Delete existing customer information:
(Only accessible if the administrator rights function is enabled).

5.3 Vehicle information

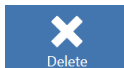
Displays all vehicle information related to existing vehicles.


Create a new vehicle specification.



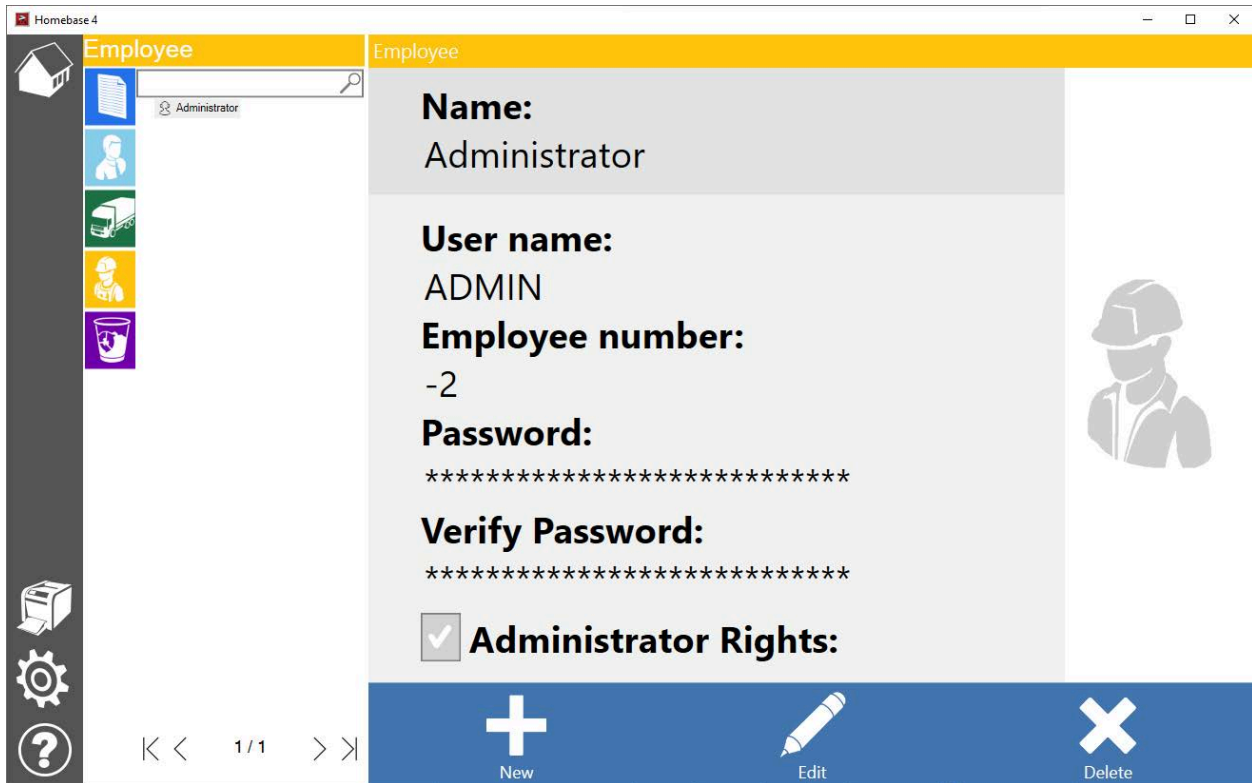
Edit vehicle specification:
(Only accessible if the administrator rights function is enabled).



Delete a vehicle specification:
(Only accessible if the administrator rights function is enabled).

5.4 Employee information

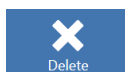
Displays information related to existing employees.


Create a new employee specification.



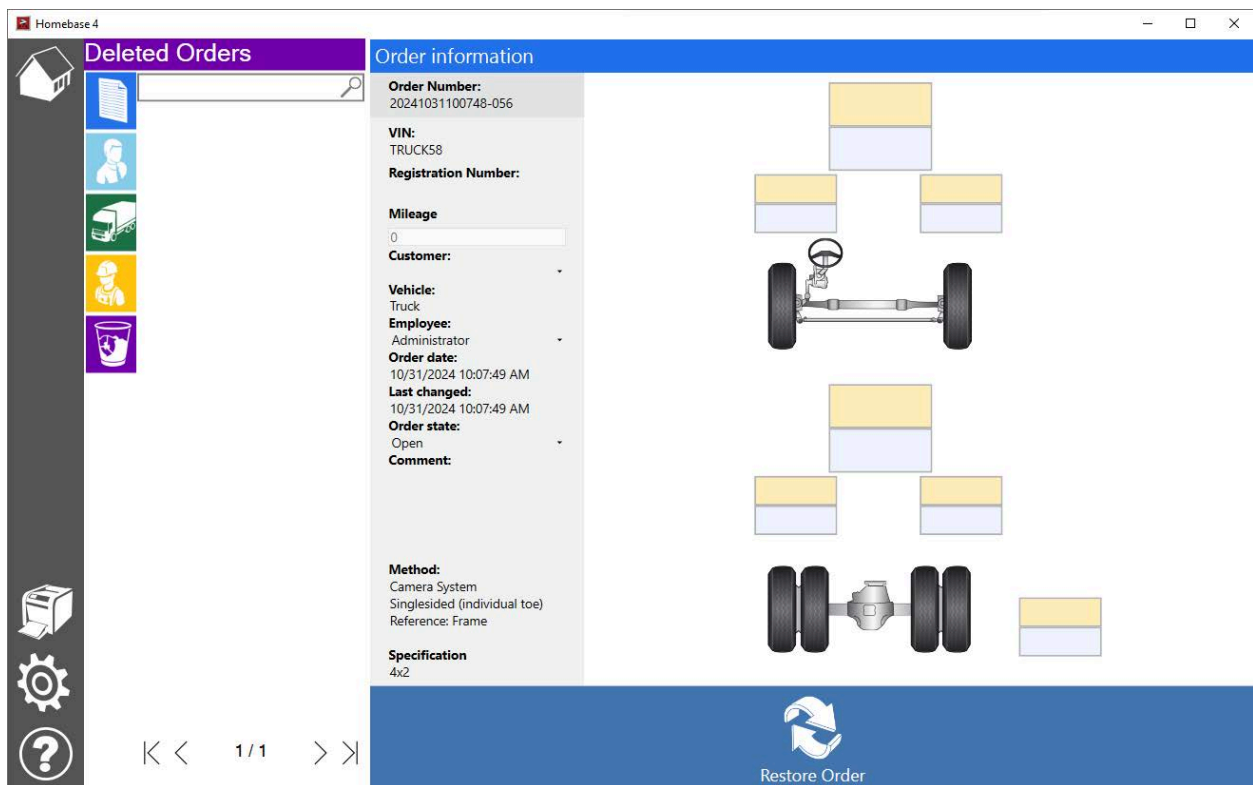
Edit employee specification:
(Only accessible if the administrator rights function is enabled).



Delete an employee specification:
(Only accessible if the administrator rights function is enabled).

5.5 Deleted orders

Displays all deleted orders.



Restore Order:

Will restore a deleted order to the order menu.

6 Definitions

The Definitions tab contains the settings for vehicles, axles and tires used by the plugins.


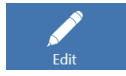
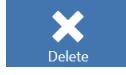

To enter the configurations window click on **[Definitions]**




The Definitions window contains Axle configuration, Tire configuration, Frame configuration and Model Configuration.

6.1 Axle configuration

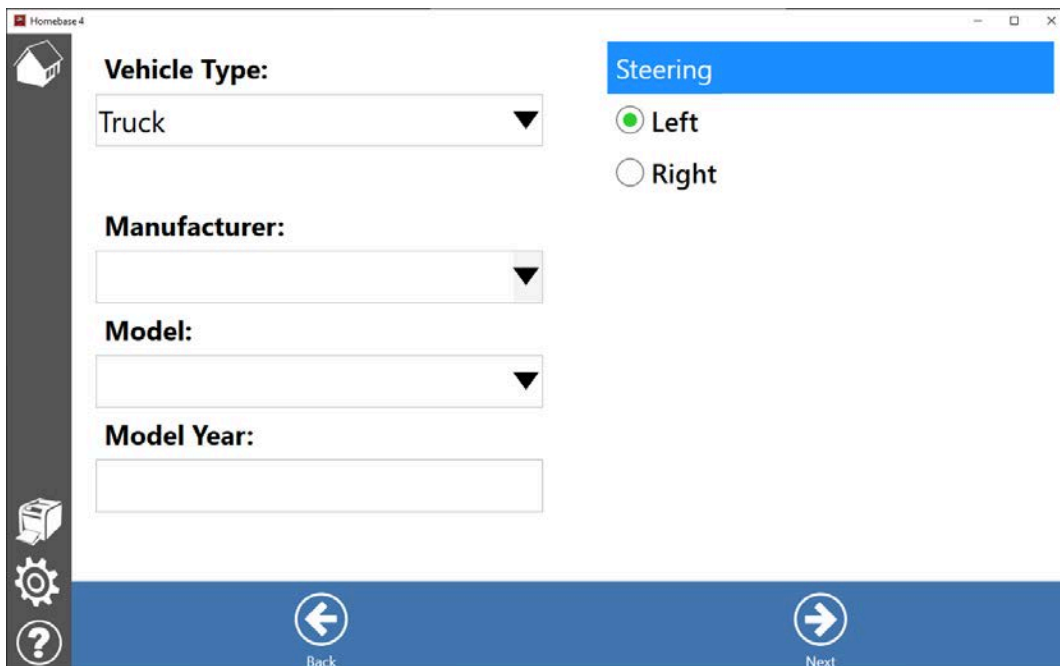
Click on the axle configuration in the list to the left to display configurations for that particular vehicle.

- 
 Create a new axle specification.
- 
 Edit an existing axle specification:
 (Only accessible if the administrator rights function is enabled).
- 
 Delete an existing axle specification:
 (Only accessible if the administrator rights function is enabled).
- 
 Click on the blue arrows to display additional tolerances.

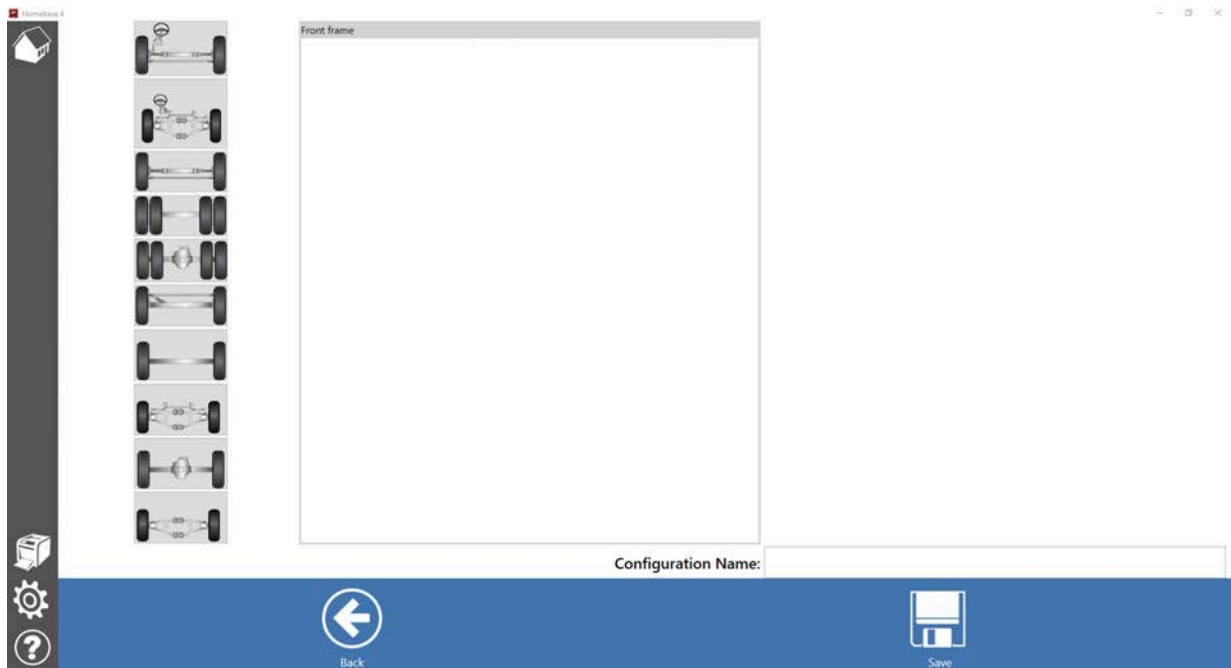
Create a new axle configuration

- 
 Click on **[New]** in the axle configuration window.

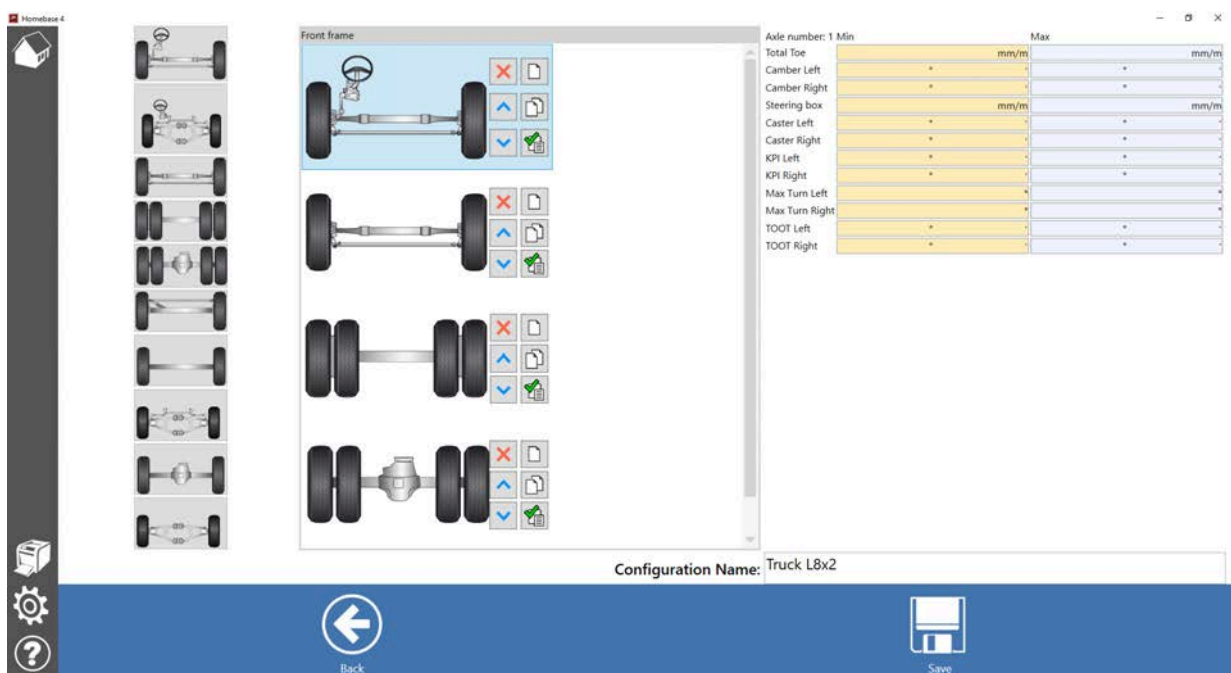
Choose the vehicle type, manufacturer, model and enter the model year.



Choose left or right steering. Click on **[Next]**.



This window will vary according to the chosen vehicle type.



To build a new axle configuration, click on an axle type in the window to the left. The chosen axle will then appear in the window to the right.



To remove the axle from the sequence, click on the red cross the right of the axle to be removed.



To move the axle up or down in the sequence, press on the blue arrows.




This will move the axle one step up or down.

Axle number: 1	Min	Max
Total Toe	mm/m	mm/m
Camber Left	°	°
Camber Right	°	°
Steering box	mm/m	mm/m
Caster Left	°	°
Caster Right	°	°
KPI Left	°	°
KPI Right	°	°
Max Turn Left	°	°
Max Turn Right	°	°
TOOT Left	°	°
TOOT Right	°	°


Enter the measurement tolerances for each axle in the text boxes to the far right.

To copy the values entered for an axle specification, click the copy icon the right of the axle that you want to

duplicate. 

Click the paste icon to the right of the axle on which to insert the values. 

JOSAM also provides default specifications for each axle type. The specifications are general and should be used as a guideline only. **Note: Always use OEM specifications when available.**

To insert default specifications for an axle, click Apply specifications 

When all information has been entered, choose a name for the configuration.

Configuration Name: Mack Granite RTruck6x2



Save

Then click on [Save]



Save

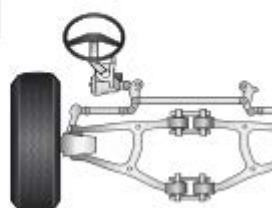
The new axle configuration is now saved.

Edit an existing axle configuration



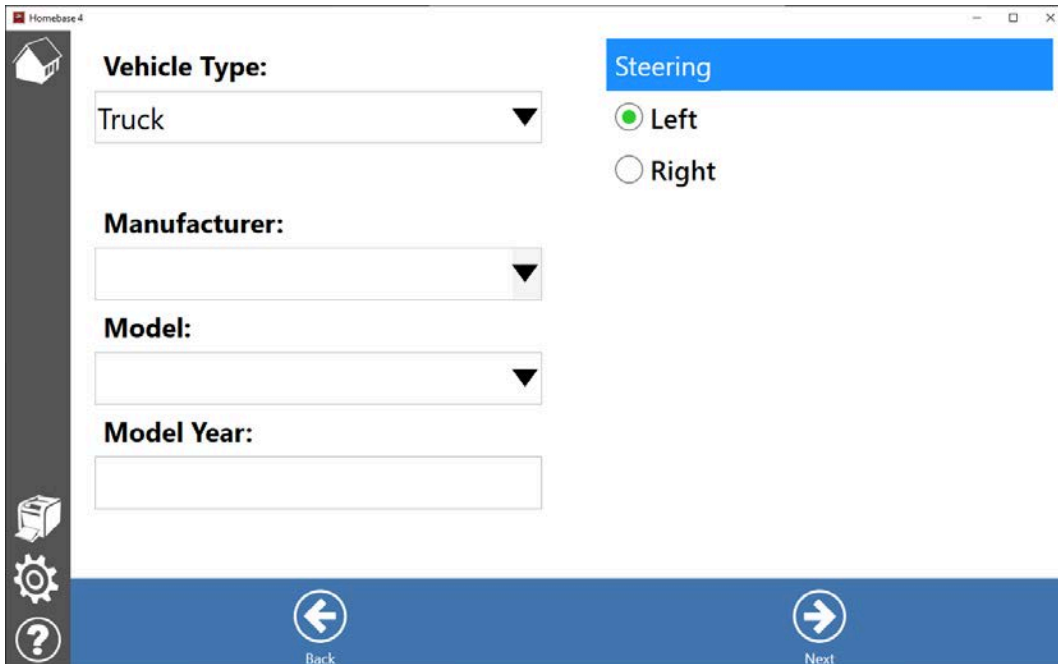
Axle Configuration Tire Configu

Volvo 7450/7550 L8x2



Choose the axle configuration to be edited from the list.

Click on **[Edit]** in the axle configuration window.

Vehicle Type:
Truck ▼

Manufacturer:
▼

Model:
▼

Model Year:

Steering

☒ Left

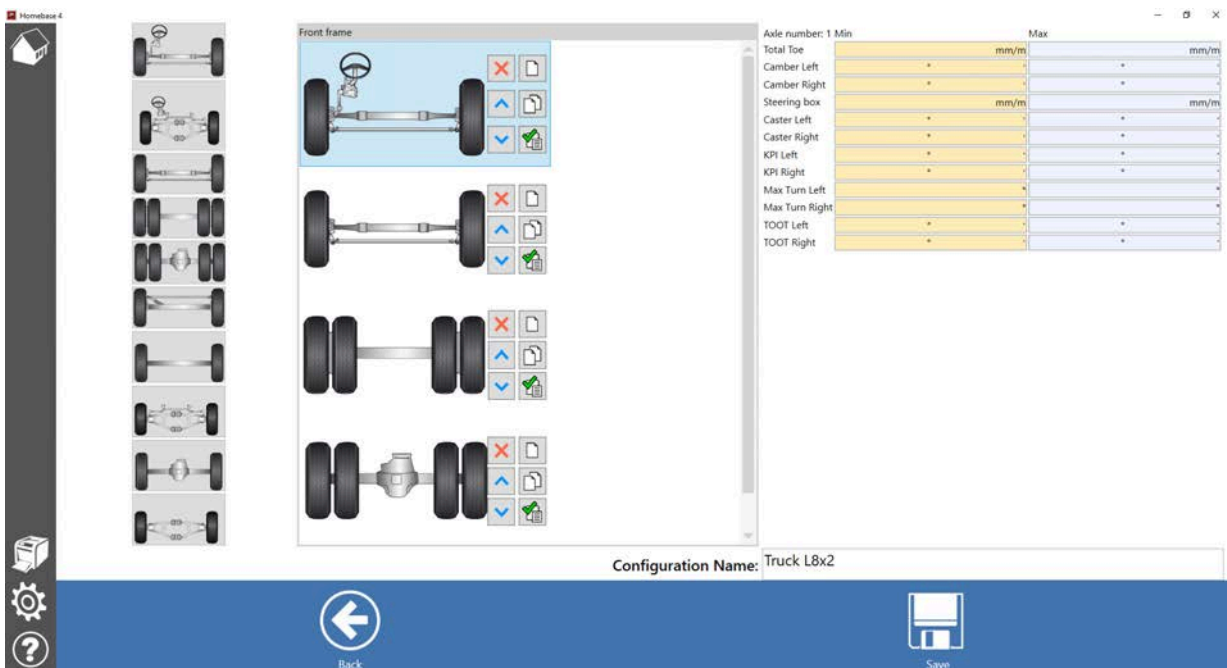
☐ Right

Back Next

Choose the vehicle type, manufacturer, model and enter the model year.

Choose left or right steering.

Click on **[Next]**.

Configuration Name: Truck L8x2

Back Save

Parameter	Min	Max
Total Toe	mm/m	mm/m
Camber Left	°	°
Camber Right	°	°
Steering box	mm/m	mm/m
Caster Left	°	°
Caster Right	°	°
KPI Left	°	°
KPI Right	°	°
Max Turn Left	°	°
Max Turn Right	°	°
TOOT Left	°	°
TOOT Right	°	°

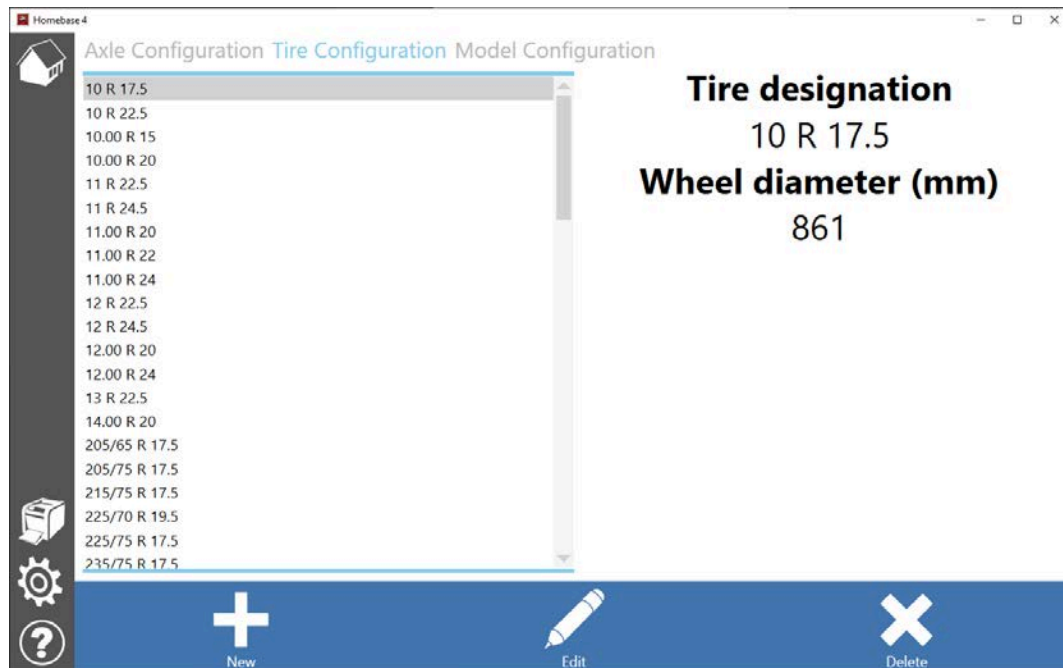
Enter the modifications and click on **[Save]**.



The changes are now saved.

6.2 Tire configuration

Existing tire configurations can be edited and new tire configurations created.

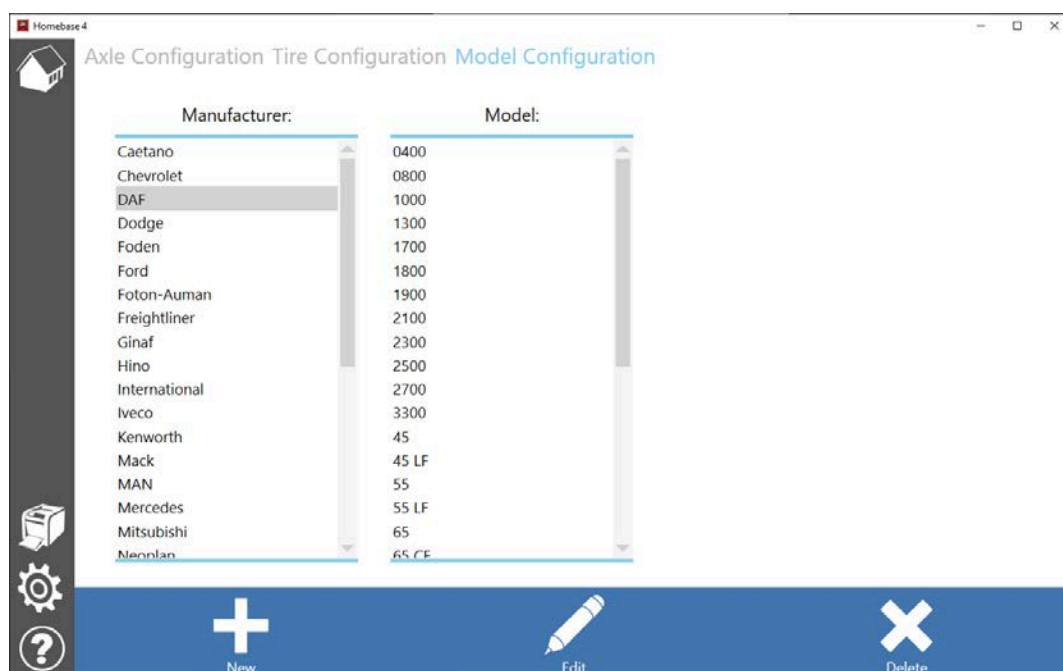


To see instructions for editing and creating new tire configurations, see chapter 4 "New order", [page 11](#). If the tyres of the vehicle are different in size, select the most common dimension or an average dimension of the ones on the vehicle.

6.3 Model configuration

Existing model configurations can be edited and new model configurations created. The model configurations are used when creating axle configurations, see 6.1 "Create a new axle configuration", [page 19](#)

A model configuration consist of a Manufacturer, which can have several models connected.



To add a new manufacturer, select an empty row in the manufacturer list and click on **[New]**



Manufacturer:

Model:

Enter the manufacturer's name and optionally a model name.

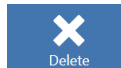
Click on **[Save]** to save the new configuration



or click on **[Back]** to cancel.



To delete a model, select it and click on **[Delete]**



To delete a manufacturer, delete all its models. Then the manufacturer will also be deleted.

7 Report and preview

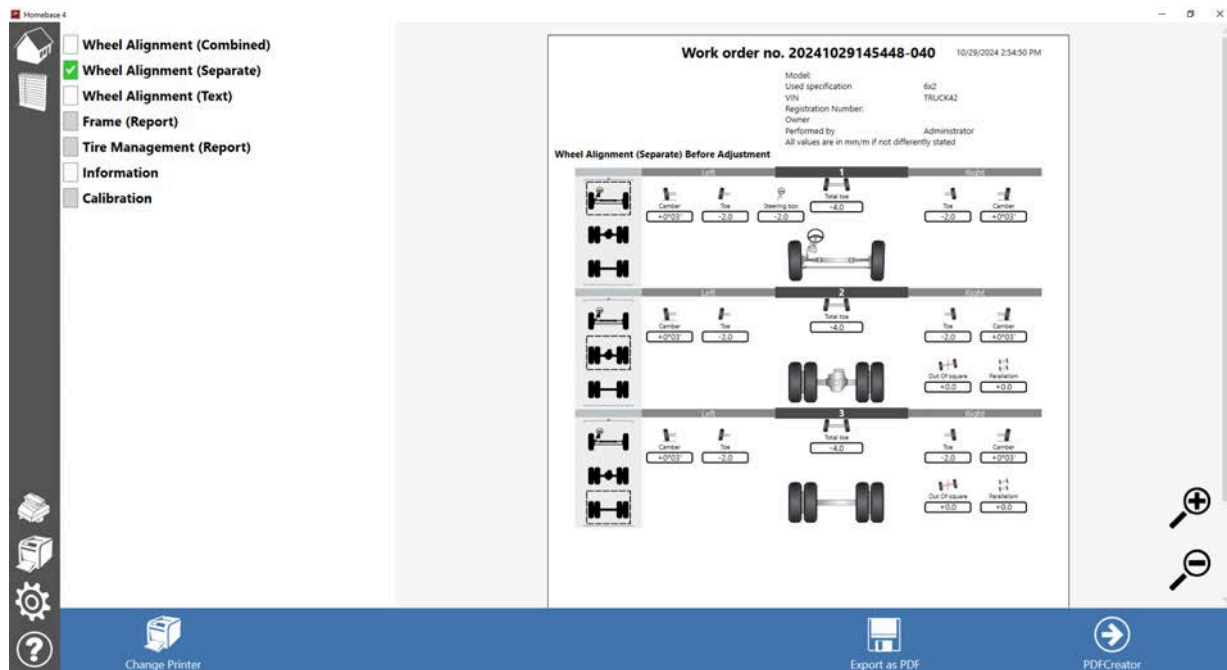


To enter the report preview, click on **[Print]** in the order menu.

The report window can be viewed in four different formats.

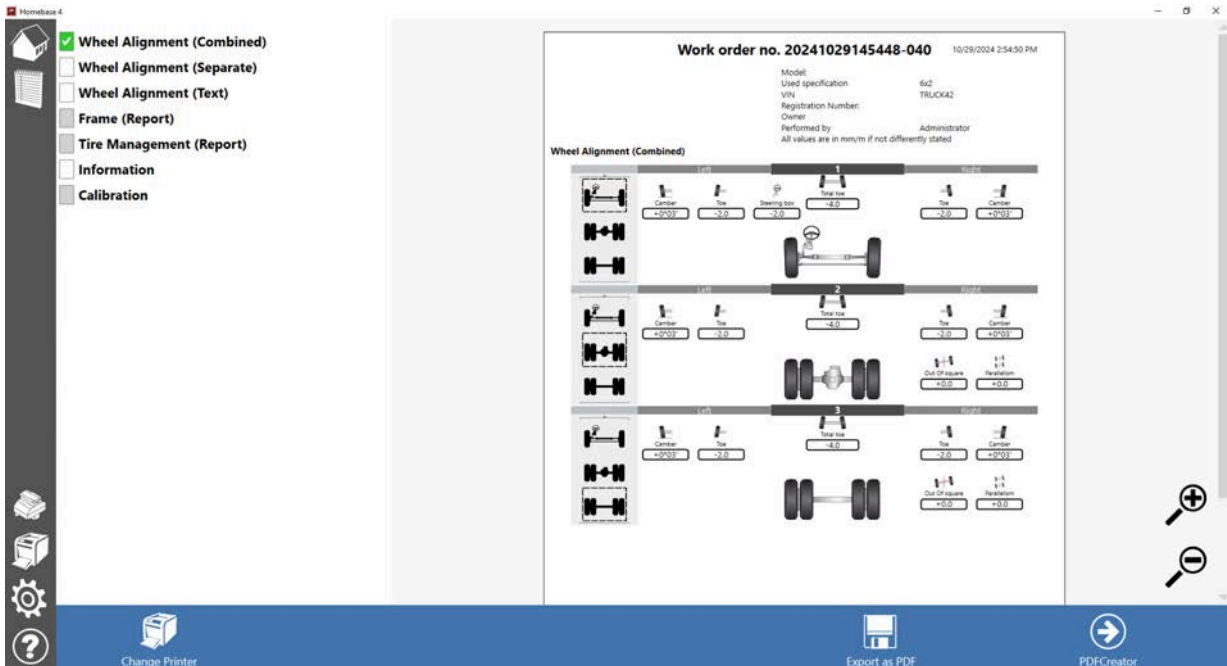
7.1 Separate

Displays before and after adjustment values on separate pages.



7.2 Combined

Displays before and after adjustment values on the same page..



Work order no. 20241029145448-040 10/29/2024 2:54:50 PM

Model: 6x2
Used specification: TRUCK42
VIN: TRUCK42
Registration Number:
Owner:
Performed by: Administrator
All values are in mm/m if not differently stated

Wheel Alignment (Combined)

AXLE 1

Parameter	Before	After
Camber	-2°03'	-2°03'
Toe	-2°0	-2°0
Steering box	-2°0	-2°0
Total toe	-4°0	-4°0

AXLE 2

Parameter	Before	After
Camber	-2°03'	-2°03'
Toe	-2°0	-2°0
Out Of square	+0°0	+0°0
Parallelism	+0°0	+0°0

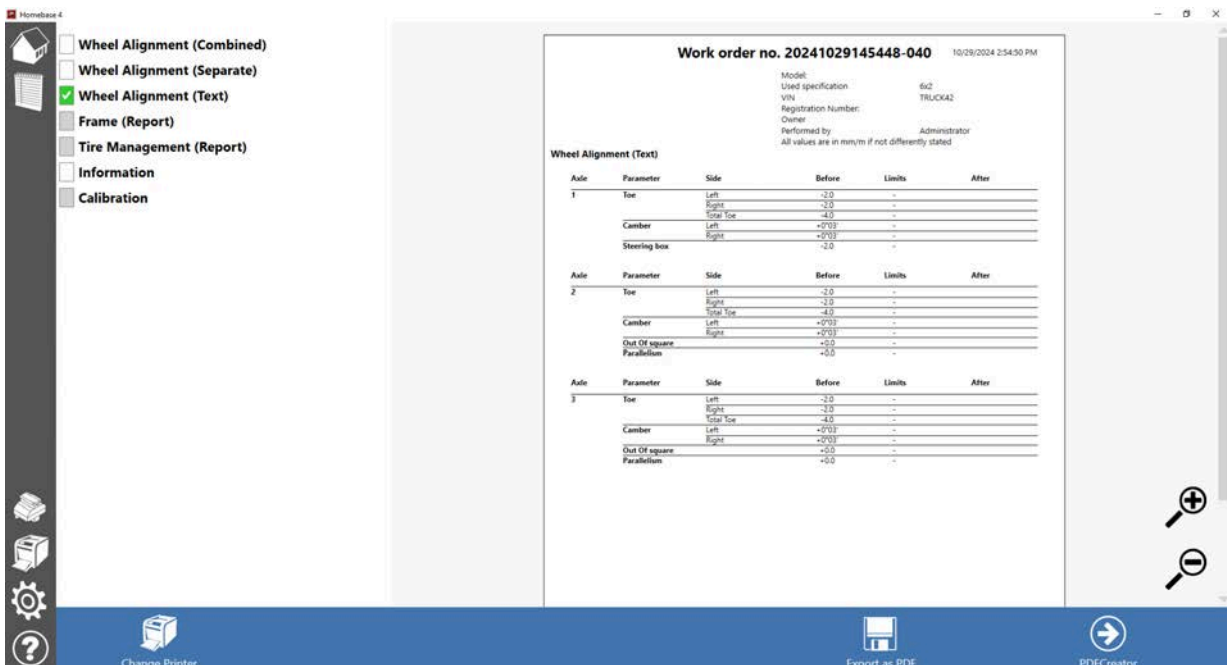
AXLE 3

Parameter	Before	After
Camber	-2°03'	-2°03'
Toe	-2°0	-2°0
Out Of square	+0°0	+0°0
Parallelism	+0°0	+0°0

Change Printer Export as PDF PDFCreator

7.3 Text

Displays before and after adjustment values on the same page, without any images.



Work order no. 20241029145448-040 10/29/2024 2:54:50 PM

Model: 6x2
Used specification: TRUCK42
VIN: TRUCK42
Registration Number:
Owner:
Performed by: Administrator
All values are in mm/m if not differently stated

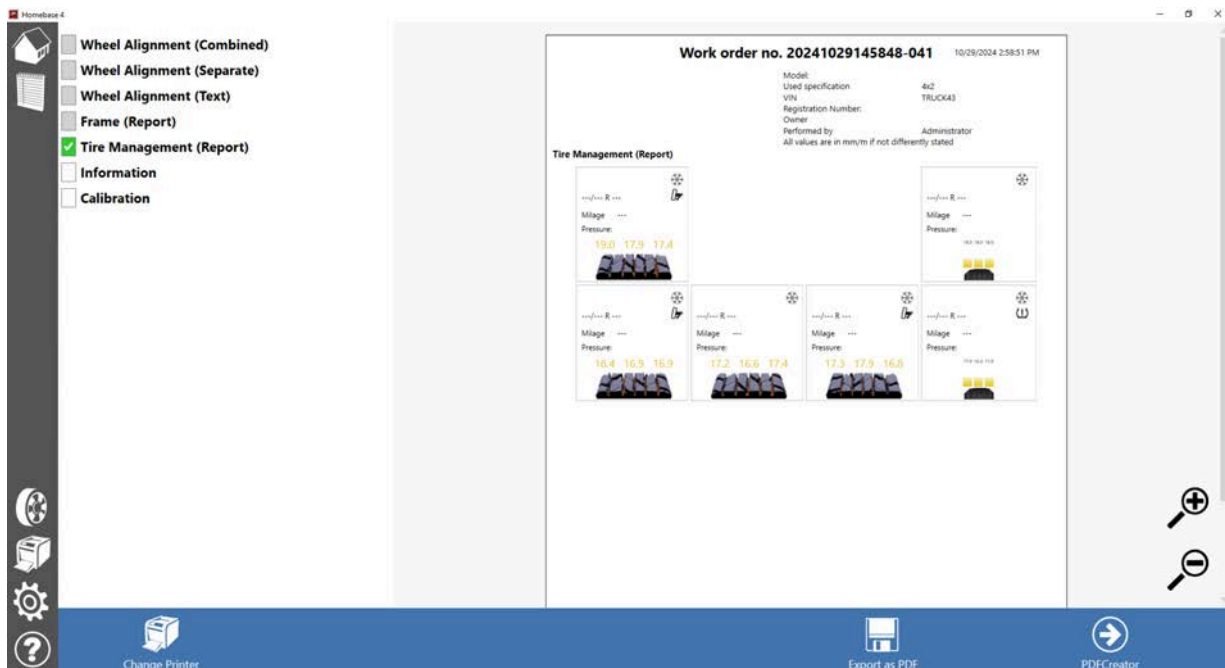
Wheel Alignment (Text)

Axle	Parameter	Side	Before	Limits	After
1	Toe	Left	-2°0	-	-
		Right	-2°0	-	-
		Total Toe	-4°0	-	-
	Camber	Left	-2°03'	-	-
		Right	-2°03'	-	-
Steering box	Right	-2°0	-	-	
2	Toe	Left	-2°0	-	-
		Right	-2°0	-	-
		Total Toe	-4°0	-	-
	Camber	Left	-2°03'	-	-
		Right	-2°03'	-	-
Out Of square	Right	+0°0	-	-	
Parallelism	Right	+0°0	-	-	
3	Toe	Left	-2°0	-	-
		Right	-2°0	-	-
		Total Toe	-4°0	-	-
	Camber	Left	-2°03'	-	-
		Right	-2°03'	-	-
Out Of square	Right	+0°0	-	-	
Parallelism	Right	+0°0	-	-	

Change Printer Export as PDF PDFCreator

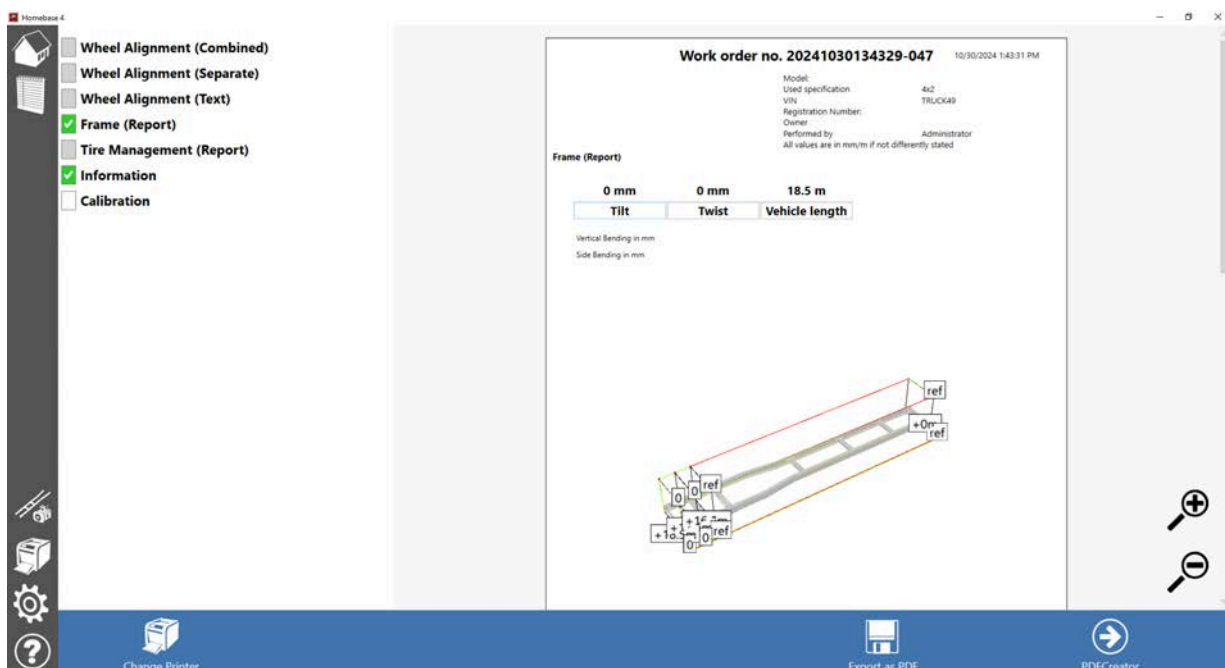
7.4 Tire management

Displays the report for tire management.



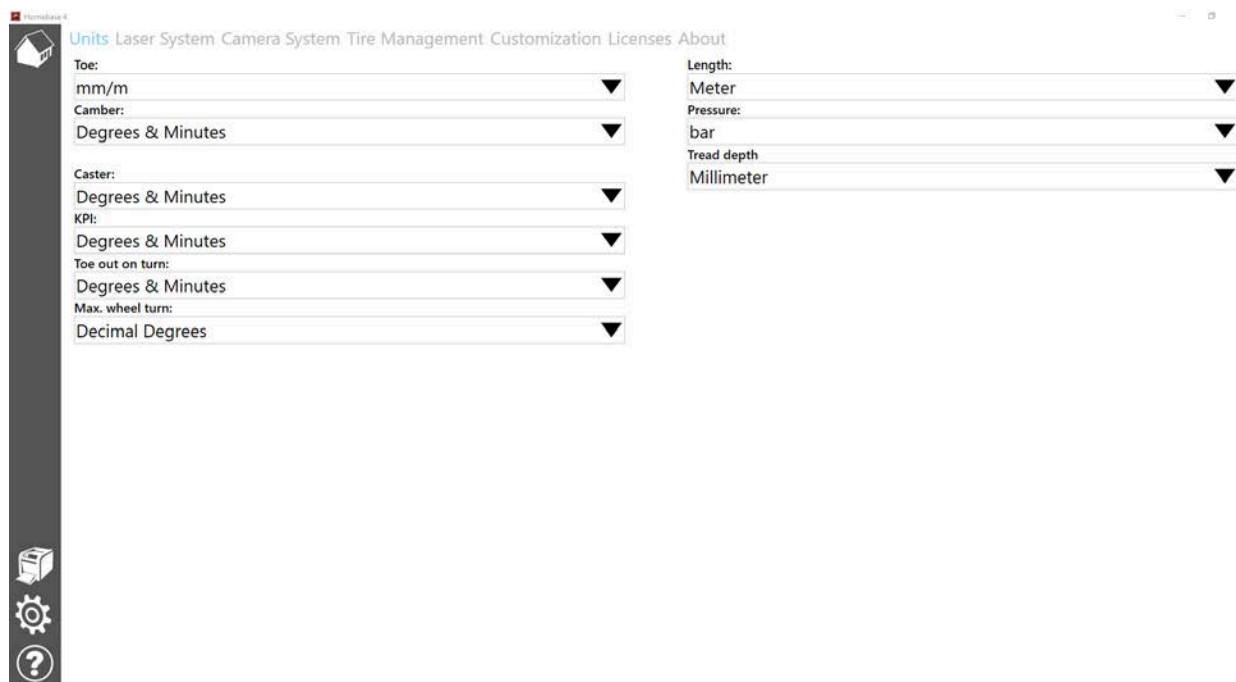
7.5 Frame report

Displays the report for frame measurement.



8 Software settings

8.1 Units



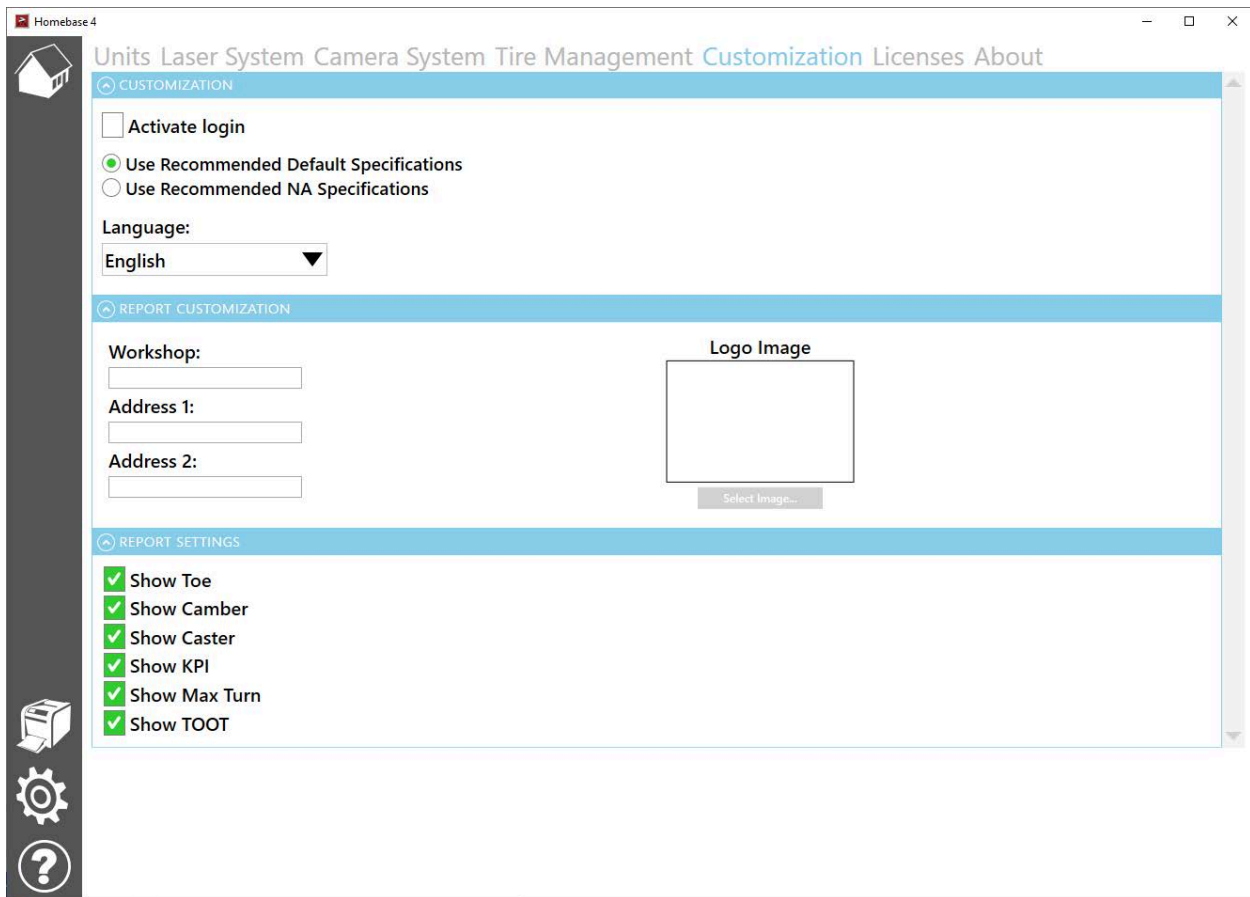
Select which units (mm/m, Degrees & Minutes, Decimal Degrees, etc.) the program should use when displaying measured results.

The selection made here will be displayed on both the printed reports and on the screen.

8.2 Laser System / Camera System

The tabs "Laser System" (I-track II) and "Camera system" (Cam-aligner) will only be visible once these plugins have been registered and activated. The settings for these tabs are described in the user manuals for each respective plugin. See user manual T 204 for I-track II and T 176 for Cam-aligner.

8.3 Customization



Homebase 4

Units Laser System Camera System Tire Management **Customization** Licenses About

CUSTOMIZATION

☐ Activate login

☒ Use Recommended Default Specifications

☐ Use Recommended NA Specifications

Language:

English ▼

REPORT CUSTOMIZATION

Workshop:

Address 1:

Address 2:

Logo Image

REPORT SETTINGS

☒ Show Toe

☒ Show Camber

☒ Show Caster

☒ Show KPI

☒ Show Max Turn

☒ Show TOOT

Activate login:

Check the box to activate login. If activated the user must use a password to login. *Administrator password is required to activate.*

Text Auto Completion:

Check the box to activate automatic text completion when entering data.

Set the minimum road legal tread depth for tires:

Enter value in mm.

Language:

Select language for the application.

8.4 Report customization

Values entered in this section will only be visible on the print report.

REPORT CUSTOMIZATION

Workshop:

Address 1:

Address 2:

Logo Image

Select Image...

Workshop

Name of the workshop.

Address 1:

First line of workshop address.

Address 2:

Second line of workshop address.

Logo Image:

Click **[SELECT IMAGE...]** to choose a picture to be used as a logo. Supported image formats are JPG, PNG and BMP. The recommended image proportions are 16:9.

8.5 Report settings


REPORT SETTINGS

☒ Show Toe
☒ Show Camber
☒ Show Caster
☒ Show KPI
☒ Show Max Turn
☒ Show TOOT

Show or hide fields on the print report.

Default is to show all fields.

8.6 Licenses


Units
Laser System
Camera System
Tire Management
Customization
Licenses
About

License	Description	Days Left
Camera Basic	Permanent	98649
Camera MultiRoll	Permanent	98684
Camera Lite	Expired	0
Laser	Permanent	98657
Tire Management	Permanent	99999

Register

☒ Hide plugins with demo registration

Displays status of licenses. Licenses can also be registered by clicking on **[Register]**.

For instructions on how to activate a license, see [9 9 "Registration", page 33](#)

To hide all unregistered plugins from the start screen, check **[Hide plugins with demo registration]**.



For support reasons, save the CD-keys you have received together with the user information from our website.

License options	
Camera Basic (Cam-aligner)	Wheel alignment. Frame measurement. Can be used in conjunction with Multiroll.
Camera Multiroll (Cam-aligner)	Optional license.
Camera Lite (Cam-aligner Lite)	Wheel alignment. Can be used in conjunction with Multiroll. Does not include Frame Measurement or Specifications.
Laser (I-track II)	Wheel alignment.
Tire Management	Tire management

8.7 About

Information about the software product version contact details, service and remote support.

For online assistance click on **[Remote Support]**.



The TeamViewer QuickSupport Window will display instructions on how to connect.



9 Registration

9.1 Introduction

You can use an unregistered edition of JOSAM Homebase with no restrictions for a trial period of 30 days after installation. During the trial period you can use JOSAM Homebase with no limits.

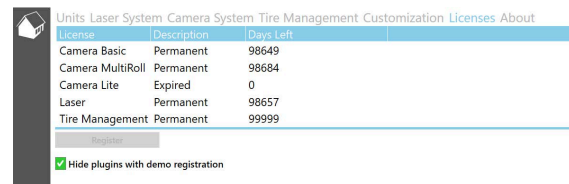
9.2 Registration part 1, begin registration

- 1 Make sure your computer is connected to the Internet.
- 2 Start JOSAM Homebase.

- 3 Click on **[Settings]** .

- 4 Click on the Licenses tab.

The Licenses tab displays all available plugins and their registration status. Registration status is either Permanent, Demo or Expired.



License	Description	Days Left
Camera Basic	Permanent	98649
Camera MultiRoll	Permanent	98684
Camera Lite	Expired	0
Laser	Permanent	98657
Tire Management	Permanent	99999

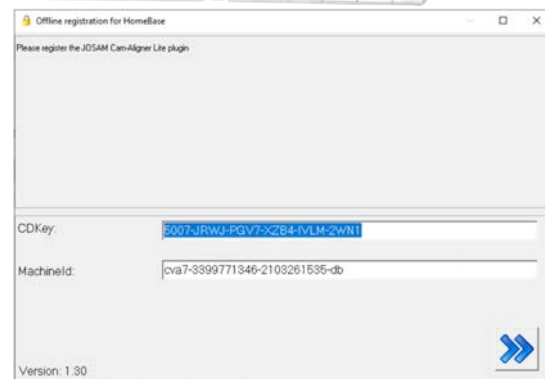
Register

☒ Hide plugins with demo registration

- 5 Click on the plug-in you wish to register.
- 6 Click on **[Register]**

Depending on the setup of your computer you may be prompted to enter the administrator username and password. If you are unsure about the username and password, please contact your local IT support.

- 7 Enter the CD-Key found on the inside of the software USB case. The machine ID is generated by the program and cannot be changed.


Offline registration for HomeBase

Please register the JOSAM CamAligner Lite plugin

CDKey: 6007-JRWJ-PGV7-XZB4-IVLM-2WN1

MachineId: cva7-3399771346-2103261535-db

Version: 1.30

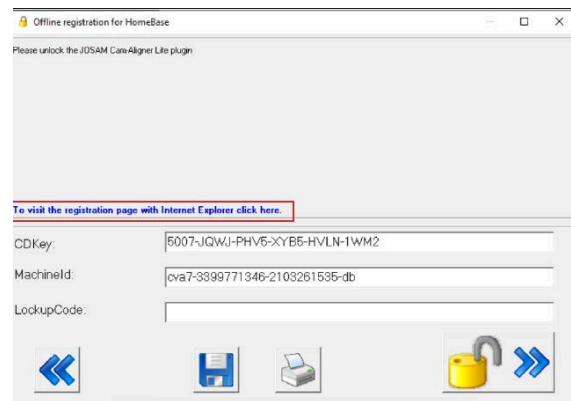


- 8 Press  to continue

- 9 Click on the blue link

To visit the registration page with Internet Explorer click here.

Continue to Registration part 2.



9.3 Registration part 2, login or create account:

Registration

Registration Part 2

Fields with * require input

For new customers : Enter your E-mail and create a new Password.
If you NOT have an E-mail address then create a username (UserID) instead.

For old/existing customers : Enter the E-mail and password you have been using before in VisionWeb.

E-mail (UserID):

***Password:**

Continue

1. Login to your account by entering your e-mail address and password. An account will be created automatically if you don't have one already. If you do not have an e-mail address, you can create your account using a username (UserID) instead.



When creating a new account, be sure to remember your login credentials.

2. Press **[Continue]**

Continue

3. Input the name and address information of the end user. Then click **[Save]**.

Registration

Registration Part 3

Fields with * require input

***Serial no.**

First name

Last name

Postal address

Visit address

Postal code

Postal city

State/Province

Phone

Company


Country

Distributor

☐ I accept all of the terms in the Privacy Policy ([click here to read](#))



To be able to save the registration you have to check the box to accept the Privacy policy.

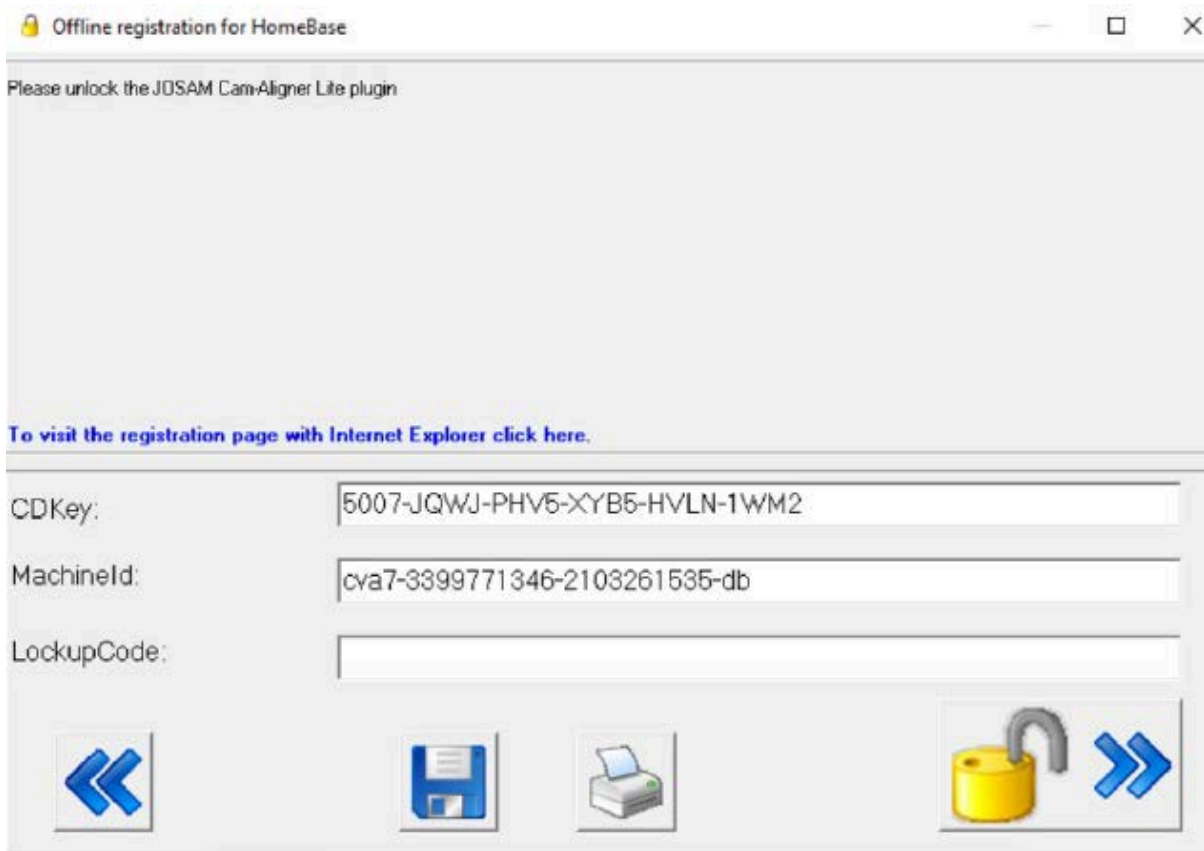
Information	
LockupCode	5004-1111-2222-3333-4444
Subscription	
Complete	Daysleft 99849
CDKey	5004-AAAA-BBBB-CCCC-DDDD-EEEE
MachineID	cva3-3399771346-2103261535-d7
Serial no.	22342
E-mail (UserID)	thomas.smith@josam.se
Company	JOSAM AB
Postal address	Maskingatan 5
Postal city	Örebro
Postal code	701 48
Country	Sweden
Phone	019-30 40 00
<input type="button" value="Print"/>	
 Download lockup file	
If you want, we can E-mail this info. Please enter address(es)	
To	CC
<input type="text"/>	<input type="text"/>
Comment	
<input type="text"/>	
<input type="button" value="Send"/>	

- The registration is complete. To unlock your program you have to fill in your lockup code. Select the lockup code and copy it using (Ctrl+C).

Continue to Registration part 3.

9.4 Registration part 3, activate license

1. Return to the registration window.



Offline registration for HomeBase

Please unlock the JOSAM Cam-Aligner Lite plugin


To visit the registration page with Internet Explorer click here.


CDKey: 5007-JQWJ-PHV5-XYB5-HVLN-1WM2

MachineId: cva7-3399771346-2103261535-db

LockupCode:

Navigation icons: Back, Save, Print, Unlock & Forward

2. Paste the lookup code (using Ctrl+V).
3. Press  to complete the registration.



Units Laser System Camera System Tire Management Customization **Licenses** About

License	Description	Days Left
Camera Basic	Permanent	98649
Camera MultiRoll	Permanent	98684
Camera Lite	Expired	0
Laser	Permanent	98657
Tire Management	Permanent	99999

Register

☒ Hide plugins with demo registration

Please verify that the description says Permanent for the license you just registered.

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