

FORKLIFT_
SIMULATOR



SIT DOWN
COUNTERBALANCED
FORKLIFT-SIMULATOR

GETTING STARTED



THE FORKLIFT SIMULATOR - INDEX

Congratulations on your brand new VR Forklift-Simulator!

To get you started quickly here's a simple start up guide to your new Forklift-Simulator.

INDEX

1. Unboxing the unit	
Wooden crate	4
Flight case	5
2. Hardware	
Setting up the unit	6-7
Controls	8-9
3. The VR headset	
Setting up the headset	10-11
4. Starting up	12-13
5. Software	
Controls Calibration	14
Quick Calibration	14
Menu and navigation	14
Log in / Quickplay	15
Completing an exercise / in game menu	15
6. Passthrough	16-17
7. Headset Settings	18-19
8. Shutting down the unit	20
9. Troubleshooting	21

THE FORKLIFT-SIMULATOR - UNBOXING

UNBOXING THE FORKLIFT-SIMULATOR - WOODEN CRATE

If your unit has been shipped in a wooden shipping crate follow the instructions below. If your unit was delivered in the optional Flight Case, see p.5.

Assure the Wooden Crate has not been damaged through transportation.



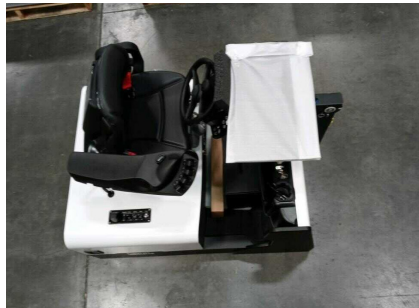
1. Remove the screws that hold the lid and remove the top. Then, remove the front panel.



2. Remove the beam(s) that hold the simulator in place. To do so, remove the screws from the sides.



3. With a forklift, evenly align the forks to the entry points of the Forklift-Simulator. Lift the Forklift Simulator several inches and remove the crate. Once the crate is removed, slowly set the Forklift-Simulator to the ground. From this point on you can easily move the unit around using a hand pallet.



4. The headset, keyboard and power cable are stored in the foot compartment.

THE FORKLIFT-SIMULATOR - UNBOXING

UNBOXING THE FORKLIFT-SIMULATOR - FLIGHT CASE

If your unit has been shipped in the optional Flight Case, follow the instructions below. If your unit was delivered in a wooden shipping crate, see p.4.

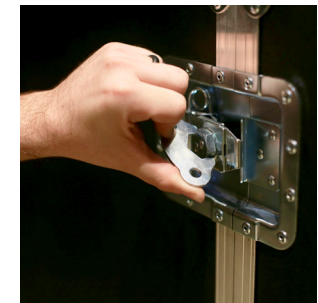
Assure the Flight Case has not been damaged through transportation. Check if the wheels and wheel locks are properly operating.



1. Position the flight case so that you have enough room to walk around it. We recommend to lock the wheels.



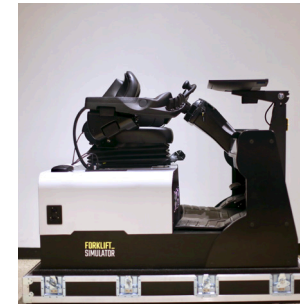
2. Unlock all 12x Latches on the Forklift-Simulator.



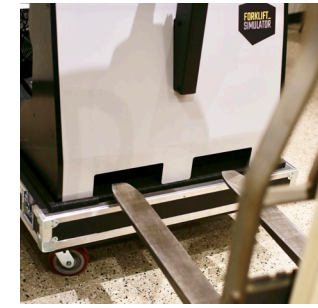
3. To unlock a latch, flip up the butterfly lever and turn counter-clockwise.



4. Once all latches are unlocked, grab the handles and lift the flight case up, then move it to the side. We recommend two people to remove the case. Remove both lids.



5. With a forklift, evenly align the forks to the entry points of the Forklift-Simulator. Lift the Forklift Simulator several inches above the flight case so that you can roll the flight case out of the way. Once the flight case is removed, slowly set the Forklift-Simulator to the ground. From this point on you can easily move the unit around using a hand pallet.



PRO-TIP

When storing the Forklift Simulator back into the Flight case, lift the Forklift Simulator and roll the bottom case underneath the Forklift and slowly set it down.

THE FORKLIFT-SIMULATOR - HARDWARE

THE FORKLIFT-SIMULATOR - HARDWARE

THE FORKLIFT-SIMULATOR - SETTING UP THE UNIT

To set up your unit for use, follow these simple steps.

SETTING UP THE MONITOR SUPPORT



BEFORE



1. Locate the Yellow latch at the front of the monitor.



2. Place one hand on the back of the monitor and one hand on the yellow latch.

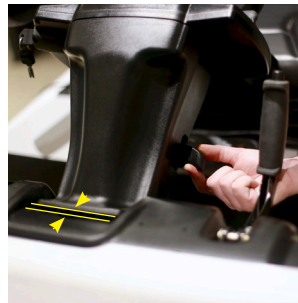


3. Push the yellow latch down and position the monitor to stand straight. You will hear the monitor lock into position.



AFTER

ADJUST THE STEERING WHEEL



Pull the steering lever up and adjust the steering wheel to the desired position. We advise you to position the steering column so that the front edge of the top cover is aligned with the line on the underlying dashboard.

ADJUSTING THE SEAT



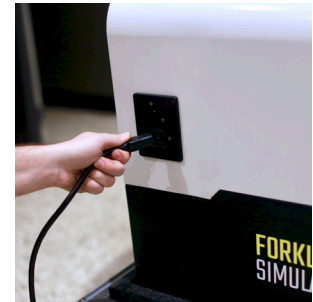
Pull the seat adjustment lever up and slide the seat in the desired position. You can also adjust the suspension of the seat with the middle lever.

ADJUSTING THE BACKREST

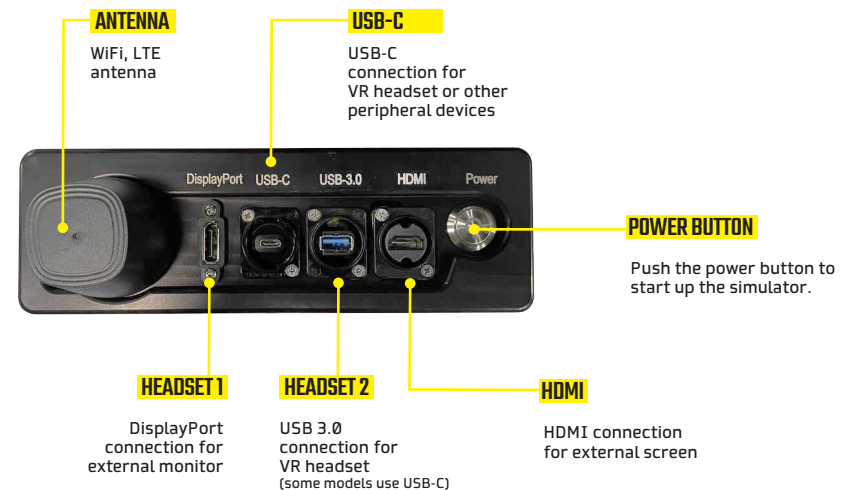


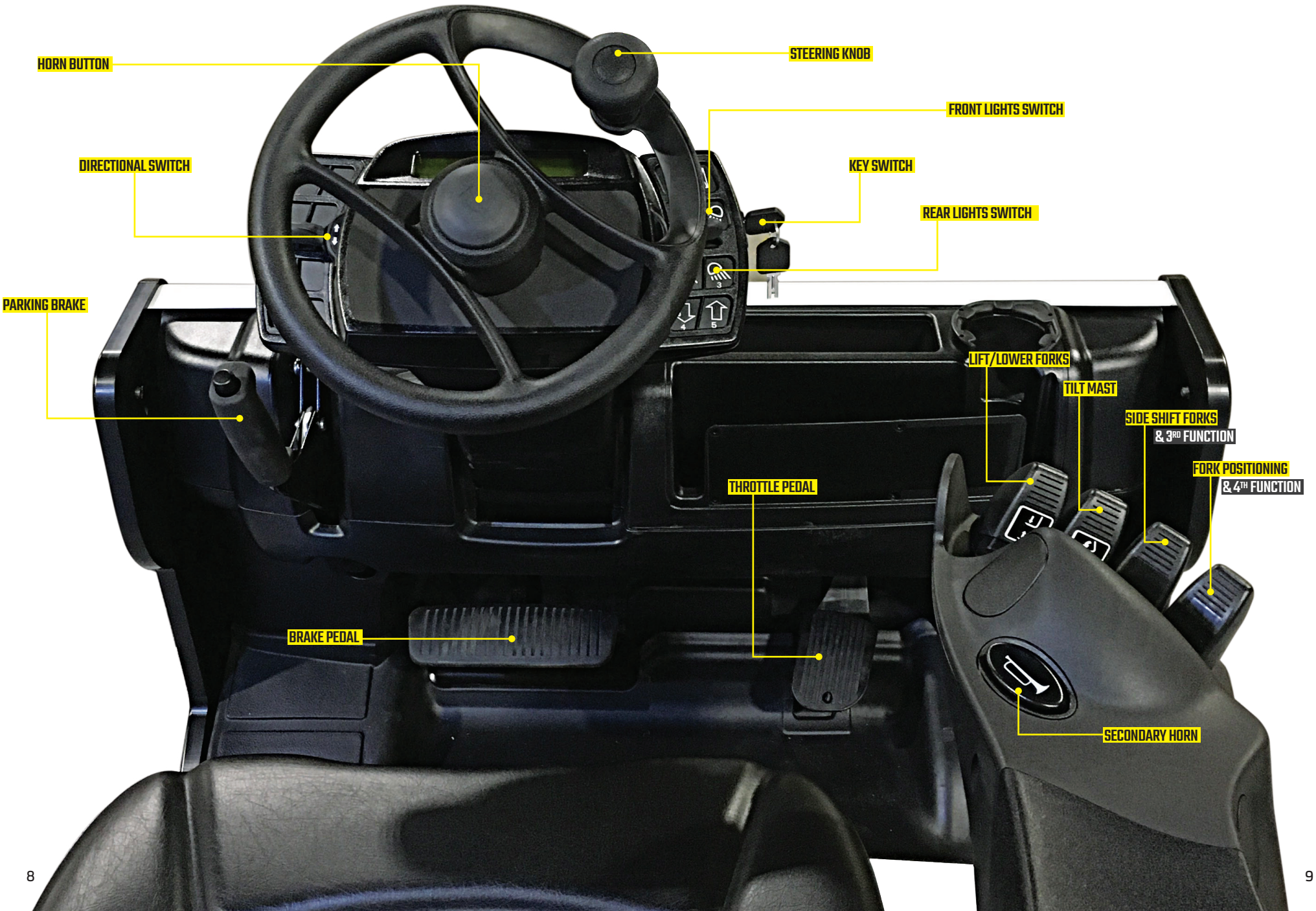
The lever to adjust the angle of the back rest is located on the side of the seat opposite of the side with the armrest. Pull the lever up and adjust the back rest in the desired position.

CONNECTING THE POWER



Plug the power cord into the Forklift-Simulator and power socket.





SETTING UP - HEADSET

HOW TO PROPERLY USE THE VR HEADSET

A best practice guide on how to deliver a Forklift Simulator experience to new and experienced users.

MAINTENANCE

Clean the lenses free of smudges and dust particles.
Avoid scratching the lens by using high quality lens cloths.
You can use anti-septic wipes to sanitize the headset.

ASSURE COMFORT AND VISUAL CLARITY

Release the top velcro strap.

Enter in the headset, eyes first while fitting the back of head.
(Put it on like a baseball cap, forward to back.)

You can tighten the headset by turning the adjustment wheel on the back.
Then fasten the top velcro strap. If preferred, the top strap can be removed.

Assure that the lens is placed over the eyes where the image is most clear!
If the image is not sharp, move the headset up or down a little and reposition.
There is a sweet spot in the middle of the lenses.

On the bottom of the headset you will find a wheel to change the interpupillary distance. (distance between the lenses)

PRO-TIP If the position of the headset is falling over the eyes, tighten the top strap. Experience that is not in focus can stimulate motion sickness.

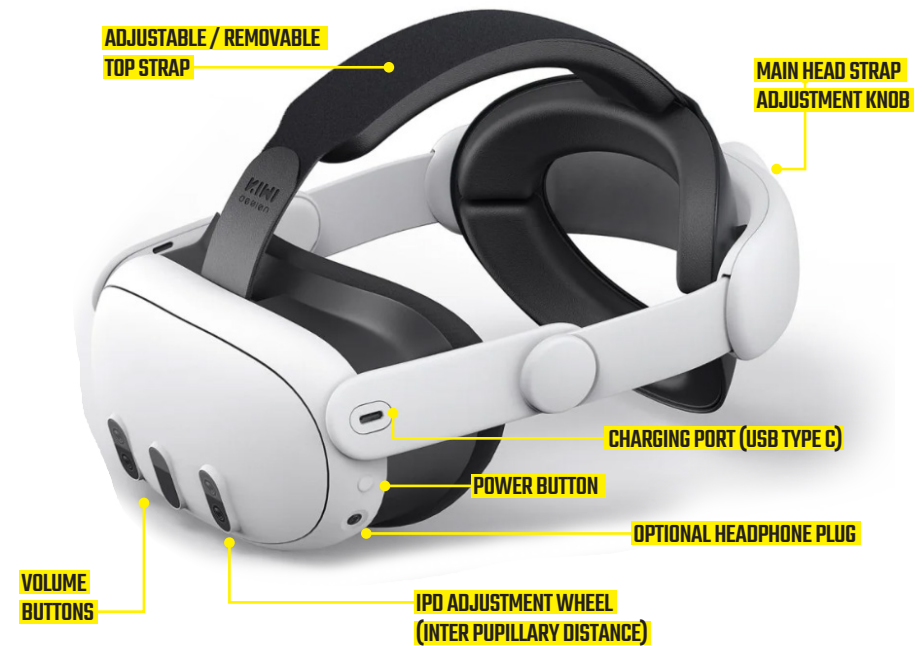
Users with glasses should be extra careful with putting on the headset.
Enter in the headset glasses first. Once their glasses have passed through the headset, fit the back of headset to the back of head.

GETTING STARTED

Important to remember that first time users should ease into their first VR experience! Making the user feel comfortable is key.

Once a lesson has been chosen, begin by having users look around the environment. Encourage the user to look behind them, above them, and carefully leaning outside the truck. When the driving portion of an exercise begins, start by driving slowly around the environment.

SETTING UP - HEADSET



PRO-TIP It usually takes 2-3 trials before first time users get acclimated to the VR technology. Users will build a higher tolerance overtime.

If user cannot proceed with VR simulation, help remove the headset and have them relax until they are ready to proceed.

REMOVING THE HEADSET

Release the main strap using the adjustment wheel and remove the headset.

For additional information on the use and maintenance of the headset please visit [meta.com](https://www.meta.com) and search for 'Getting Started With Meta Quest 3'.

START UP PROCEDURE

1. DOUBLE CHECK CONNECTIONS

Make sure all components are connected and plugged in properly. At this point, the headset does not need to be plugged in.

2. THE LAPTOP

Now, turn on the simulator. The FL-Launcher should start automatically and check for updates.

If an update is available, you will have three options:

- Download and install the update
- Skip the update
- Remind me later



3. THE HEADSET

Once the update has been downloaded and installed, the FL-Launcher will prompt you to turn on the headset and connect it to the laptop.

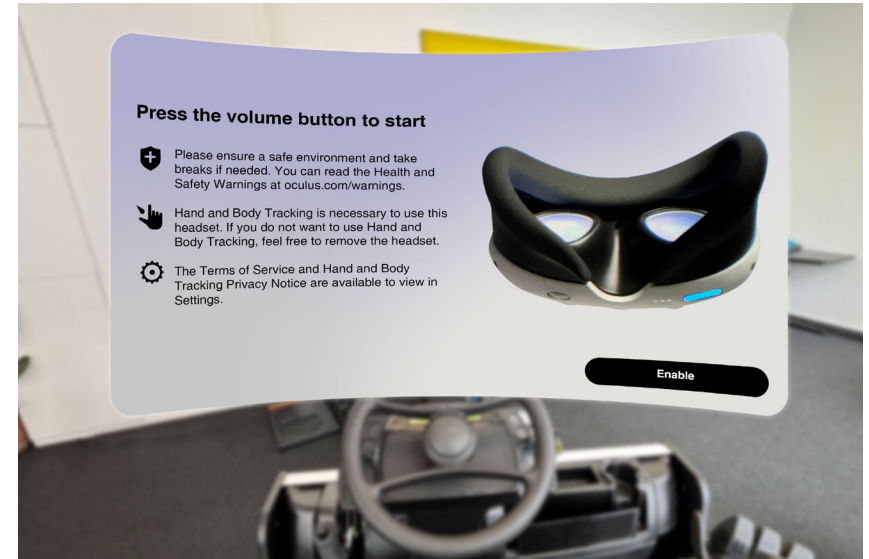
1. Press the round power button on the left side of the headset for two seconds to turn it on.

Note: If you are asked to continue a previous session, we recommend ending it and starting a new one unless you were on a short break. The headset will then restart and revert to its original settings.

2. Press the volume button to acknowledge the disclaimer (see screenshot on page 13)

Hand and Body Tracking is turned on by default. The hand controllers are not needed during the Forklift Training Simulation.

START UP PROCEDURE



3. Connect the headset to the laptop using the provided Link cable. The angled USB-C connector plugs into the side of the headset.

Use the cable straps or clips to guide the cable alongside the headset. This prevents the cable from pulling on the connection.

Once connected, you will see a notification within the headset asking you to enable 'Link'. Select 'Enable' to proceed.

The Forklift-Simulation application will begin loading automatically (this may take a few seconds).

- Calibrate your position in the virtual space if needed.
- Sign up or log in with your personal Forklift-Simulator account.
- Select 'Quickplay' if you do not want to use a personal account

Note: If you do not see the prompt to enable 'Link' when connecting the headset, please navigate to the Quick settings on the headset and launch 'Link' from there. See pages 18 and 19.

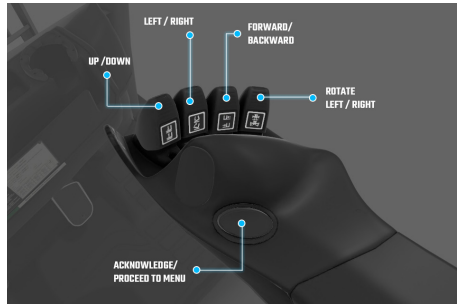
FORKLIFT-SIMULATOR SOFTWARE

CALIBRATION

On startup, you'll be asked if the simulator needs to be calibrated.

If the position of the virtual controls match the real ones, select 'Skip' and press the horn to continue.

If they don't match, select 'Calibrate'. Use the controls to move the virtual truck until its controls align with the real ones. Once set, press the horn to proceed.



Calibration functions using the controls.

QUICK CALIBRATION

You can use the Quick Calibrate method at any time for a quick preset position based on your hands.

To perform a Quick Calibrate:

- Touch and hold the button on your left hand until the light around it fills up.
- Place your left hand on the steering wheel at the 12 o'clock position.
- Place your right hand on the armrest and press the horn.



Using the Quick Calibrate button.

MENU AND NAVIGATION

You can navigate the menus using the steering wheel:

- Turn the wheel left to scroll up.
- Turn the wheel right to scroll down.
- To select an item or confirm a choice, press the horn on the handle.

Alternatively, you can use your index finger to point and touch. To scroll, touch and hold, then drag.



'Handling Loads' Menu of the default CB Curriculum

FORKLIFT-SIMULATOR SOFTWARE

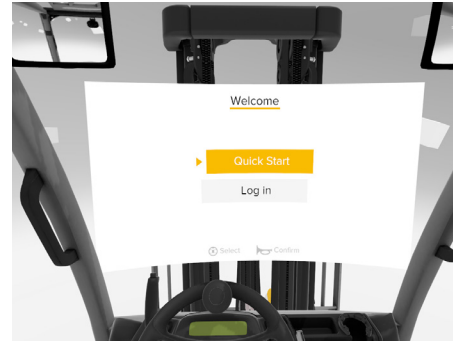
QUICKPLAY - LOGIN

QUICKPLAY MODE

This modus can be used by anyone. No individual results will be saved and progress will not be tracked in this mode.

LOGIN MODE

If your company uses the LMS, individual drivers can log in with a PIN provided by their system administrator to track their progress. This saves individual results, allowing both the driver and trainer to monitor progress over time.



Quickplay or Log in

COMPLETING AN EXERCISE / IN GAME MENU

Once an exercise is complete, a new screen will appear showing your results and any trophies you've earned. From here, you have three options:

Retry: Restart the same exercise to try and improve your score.

Next: Skip immediately to the next exercise in your current level.

Back to Menu: Return to the main exercise selection menu.

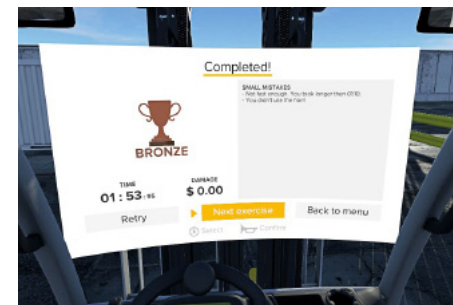
To select an option, turn the steering wheel and press the horn button to confirm.

During any exercise, you can access an expandable menu located under the head-up display. Simply touch the menu icon, and it will expand to give you the following choices:

Exit: End the current exercise.

Settings: Access the settings menu.

Reset/Restart: Reset or restart the exercise from the beginning.



Result page



Head Up Display and expandable menu

ACCESS PASSTHROUGH

WHAT IS PASSTHROUGH ?

Pass-through is a feature that allows you to temporarily exit the virtual world and see a live view of your real surroundings. This is especially useful for communicating with others or reorienting yourself without having to take off the headset.

Passthrough can be accessed in three ways:

1. DOUBLE-TAP

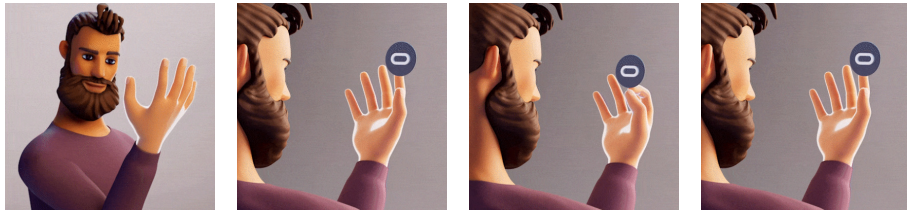
To switch between Passthrough and full VR environments while in the headset, simply double-tap either side of the device.



2. QUICK PINCH

Another way to exit the application and switch to the Passthrough environment is with a quick pinch gesture. Simply look at the palm of your right hand and briefly pinch your index finger and thumb together.

To return to the VR simulation, just repeat the same gesture.



Look at the palm of your right hand.

When you see the Meta logo appear...

... shortly pinch/tap index finger and thumb...

... and release.

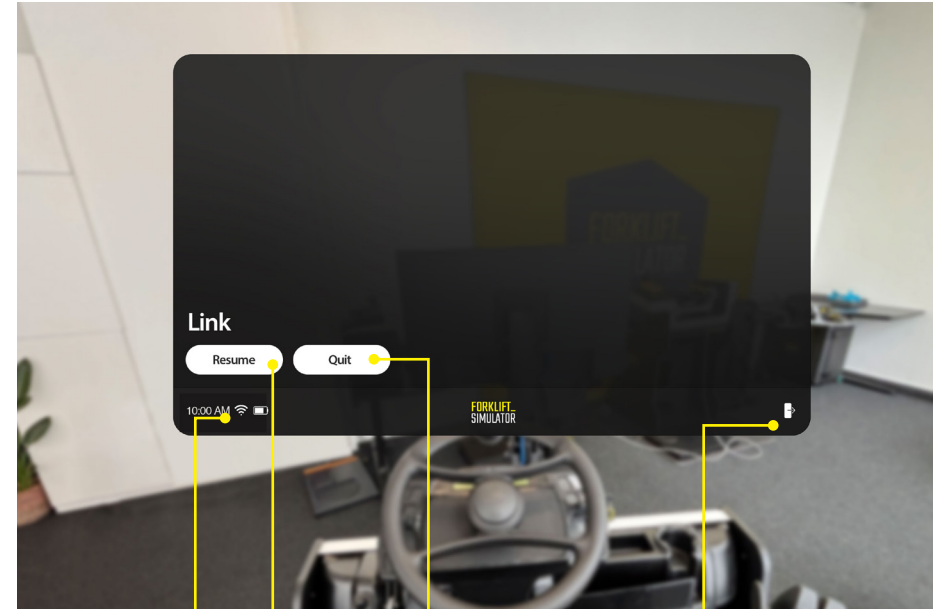
3. PASSTHROUGH BUTTON (3S MODEL ONLY)

Push the round button on the bottom right of the headset to switch between the VR and Passthrough environments.

Note that this option is only available on the Quest 3S model.



PASSTHROUGH VIEW



QUICK
SETTINGS

RESUME
SESSION

QUIT
LINK

END
SESSION

Passthrough view

SETTINGS

While in the Passthrough environment, you can access the headset settings by touching the clock, Wi-Fi, and battery icons in the bottom-left corner. If the screen is out of reach, you can aim at the icons and pinch your thumb and index finger together.

RESUME SESSION

To switch back to VR, select 'Resume.' Alternatively, you can double-tap the headset or perform a quick pinch gesture as described previously.

QUIT LINK

Selecting 'Quit' will close the link between headset and laptop.

END SESSION

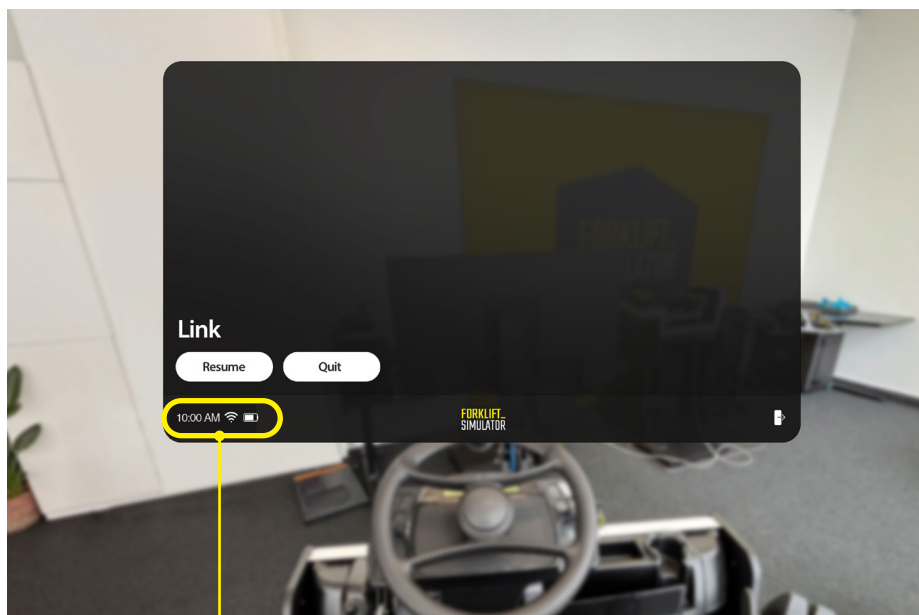
This will end your current session and restart the headset.

ACCESS HEADSET SETTINGS

HEADSET SETTINGS

First, exit the simulation by double-tapping the side of your headset or by using the pinch method (see page 16).

Next, access the headset's Quick Settings Menu by touching the clock, Wi-Fi, and battery icons in the bottom-left corner of your view.



Passthrough view

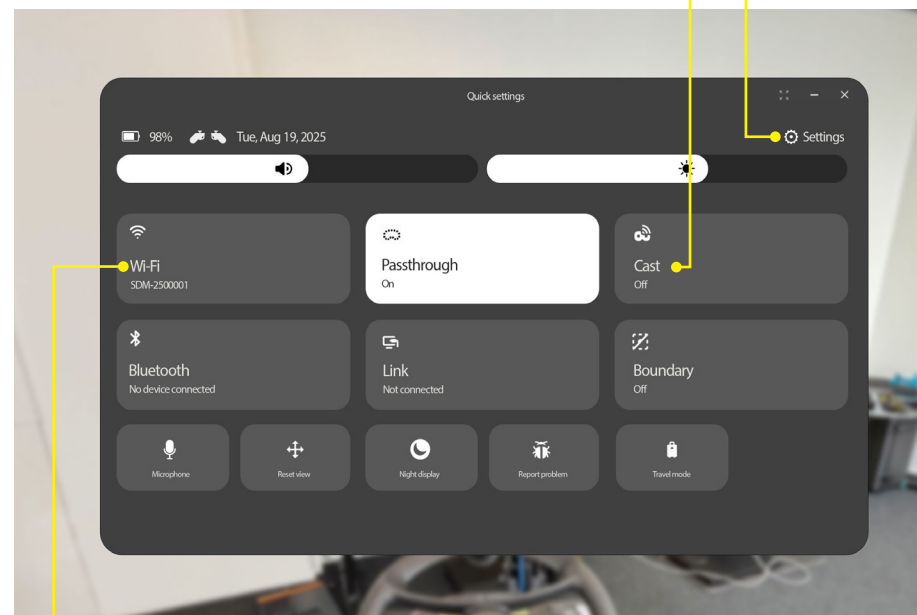
QUICK SETTINGS

HEADSET SETTINGS

CAST SESSION

You can cast your view to a web address to share your screen with the support team.

ADVANCED SETTINGS



WI-FI SETTINGS

You can access the Wi-Fi settings here.

THE FORKLIFT-SIMULATOR - SHUTTING DOWN

SHUTTING THE DOWN THE FORKLIFT-SIMULATOR

To shut down the unit all you need to do is push the power button. The unit wil shut down and will be waiting for the next ride.

PRO-TIP Treat the Forklift-Simulator as any other computer and do not unplug the power cord until the unit is completely shut down.



POWER BUTTON



DO NOT UNPLUG THE POWER CABLE

BEFORE SHUTTING DOWN THE UNIT!

CB SIMULATOR - TROUBLE SHOOTING

Problem	Solution
1 The virtual controls in VR do not align with the position of the physical controls.	<p>When you start the application, you'll be asked if calibration is needed. If the virtual controls do not match the position of the physical controls, select 'Calibrate' using the steering wheel, then press the horn to confirm.</p> <p>Once in calibration mode, use the controllers to move the truck's position—up, down, left, or right—until the virtual controls align with the real ones. When everything is in place, press the horn to save and exit calibration mode.</p> <p>Quick Calibration You can also perform a quick calibration at any time to instantly reposition the virtual controls based on your hand position. Touch and hold the button on the back of your left hand until the circle around it is complete. Place your left hand on the steering knob at the 12 o'clock position. Place your right hand on the armrest and press the horn. This will immediately adjust the virtual controls to the new position.</p>
2 I was logged out on the Meta Quest Link application in Windows.	<p>To log in with our generic simulator account, follow these steps:</p> <ul style="list-style-type: none"> - Click 'Log in' to open the browser. - Select 'Log in with a personal account' - Log in using the credentials provided by support. - When prompted for a 2FA code, choose 'Log in using password'. - Enter the password to complete the login. <p>(contact support@forklift-simulator.com if you do not have the login credentials)</p> <p>For certain features to work, you must use an account with developer settings enabled. If you plan to use a personal account, please ensure that you turn on developer settings for your account and enable the following settings:</p> <p>(On PC in hte Meta Quest Link app > Settings tab > Beta tab > scroll down)</p> <ul style="list-style-type: none"> - Developer Runtime - Pass-through over Meta Link - Spatial Data over Meta Link
3 Headset is not connecting	<p>Please follow the steps below to start the simulator:</p> <ul style="list-style-type: none"> - Turn on the simulator and wait for the FL-Launcher to open. - When prompted, turn on the headset, connect it to the laptop, and put it on. - In the headset, select 'Enable' when asked if you want to enable Link. - The Link application will then load, and the FLS application will start automatically. (This may take a few seconds). <p>Manual Link Connection If you are not asked to enable Link after plugging in the headset, you can do so manually:</p> <ul style="list-style-type: none"> - Open the Quick Settings menu by clicking the clock, Wi-Fi, and battery icons in the bottom-left corner of the Meta menu. - In the Quick Settings menu, select 'Link', then choose 'Launch Link'.

For all other questions, please contact support@forklift-simulator.com

NA & LATAM

FL-Simulators Inc.
4590 McArthur blvd, suite 500,
Newport Beach, CA 96220
United States of America

EMEA & APAC

FL-Simulators Europe by
Uitbreidingstraat 10-16, Gate 2
2600 Antwerp
Belgium



www.forklift-simulator.com