

HEXOSIM

Technical Data Sheet





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Build your own racing simulator with the Hexosim Kit!

The Hexosim kit turns building your automotive simulation stand into an accessible and rewarding adventure. Suitable for all levels, from beginners to DIY experts, this kit is designed to simplify every step of the process.



Ease and Precision: Each outline is easy to replicate with full-scale plans on tracing paper and our 3D tool that helps control your cuts. Angles are limited to 45° or 90° for completion with minimal tools.

Detailed Guide and Video Support: A detailed guide accompanies the kit, illustrating each step with images and tips to ensure successful cuts and assembly. You will also have access to a series of explanatory videos on how to use the necessary tools.

Modularity and Easy Transport: The simulator is designed to be easily disassembled into five large parts, simplifying transport. It is designed to be assembled and disassembled multiple times without damage.



Design and Functionality: With its warm wooden design, the simulator fits perfectly into your gaming space, offering attractive aesthetics and great functionality. It is designed for optimal ergonomics, allowing quick adjustment of the position (steering wheel, pedals, and gear lever), easily accommodating both short and tall individuals. Enjoy practical storage, pockets, and a design that incorporates automotive codes while ensuring adequate ventilation for your electronic devices.

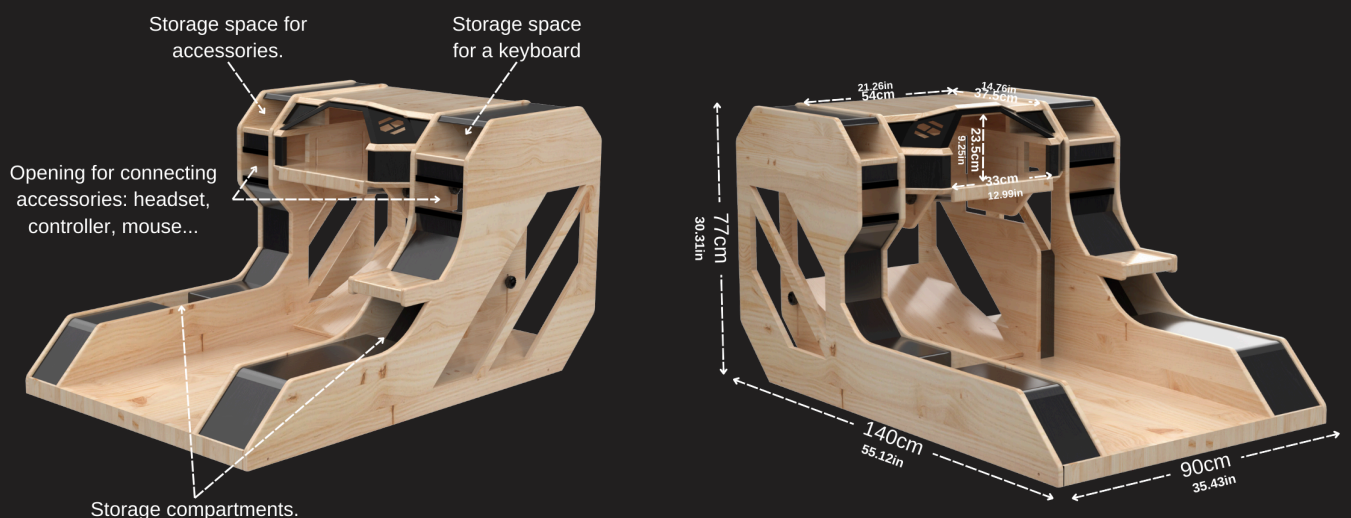
Customizable: The advantage of the kit is that it allows you to choose your materials, such as the wood and colors you desire. I still recommend choosing at least plywood or spruce/pine wood as shown in the photos and videos, as these woods offer very good strength, remain affordable, and are easy to work with. MDF or melamine will be less robust, and a hard wood like oak will require higher quality tools and more experience in woodworking, but it is still possible.

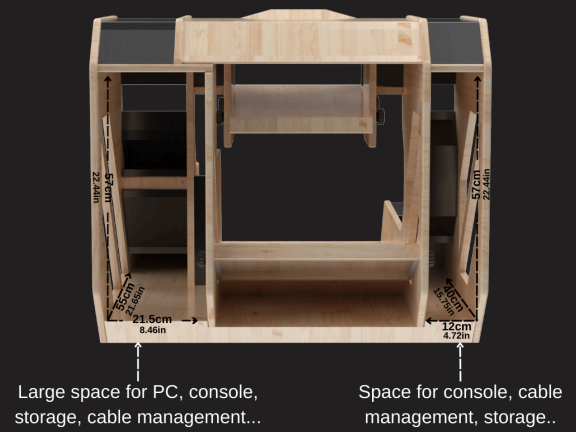
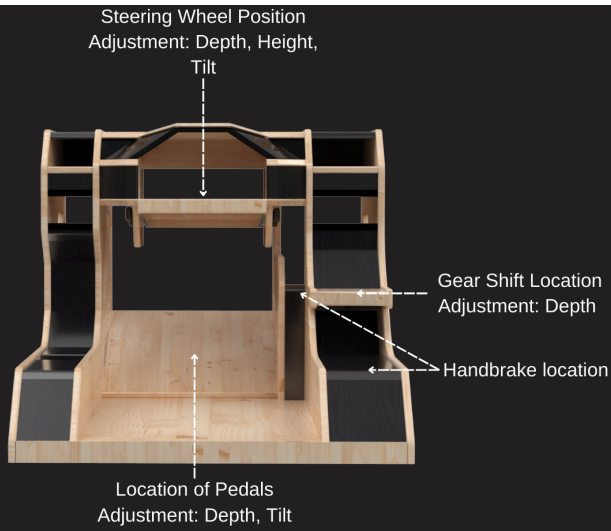


Compatible with Many Products: This simulation stand is highly compatible with a wide range of products from major SimRacing brands. Steering wheels from Fanatec, Thrustmaster, Logitech, and Moza Racing, with a current maximum power of 15 N.m, are all compatible. (Additional tests are underway to establish the maximum supported capacity, and results will be shared on my social networks soon.) As for the pedals, the stand accommodates all models from these brands, including inverted pedals, provided their height does not exceed 35 cm. Shifters from these brands are also compatible.



At the Seat Level: You can choose the seat of your choice, whether it's a sim racing seat, a car seat, or a bucket seat. I only recommend equipping it with sliders (if they are not integrated into the seat, they can be purchased separately. Make sure they are compatible with your seat.) to quickly and easily adjust this position in case of a driver change.





Detailed Kit Contents:

Manufacturing Assistance:

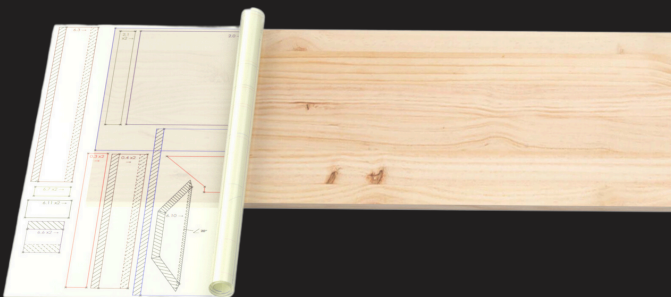
Hexosim Assembly Guide:

- Introduction to the Hexosim story
- Details of the kit and supplied materials
- List of consumables, protective equipment, and necessary tools
- Legend for the full-scale 1:1 blueprints
- Explanations of the control tool and a sample plan
- Glossary and tips
- Safety instructions
- Detailed instructions for each part
- Explanatory videos
- Optional inclusions: Handbrake support and seat riser

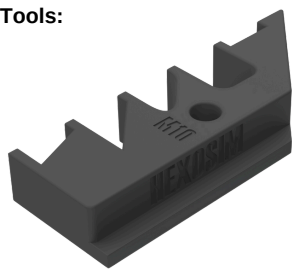


Full-Scale 1:1 Blueprints:

- Easily replicable outlines
- Printed on four tracing sheets of 1420 x 914 mm.
- Each part is represented by a distinct color to facilitate assembly.



3D Tools:



Assists with assembly at a 45° angle.

Assists with assembly at a 135° angle.

Verification of 90° cuts

Verification of 90° cuts + fillets

Verification of 45° cuts + fillets

Verification of 45° cuts

Verification of the 20° cut for piece 6.10 only

Drilling guide for M10 diameter

Assembly assistance with gluing template

Assists with assembly at a 90° angle.

- ➡ Allows precise angle control.
- ➡ Guides your drilling to ensure straight execution.
- ➡ Helps position and glue parts correctly without requiring additional measurements.



Aesthetics / Finish:

7 steel finishing pieces:

Designed to enhance areas where crafting wooden parts would be complex.

- 3 for the dashboard
- 2 for the right module
- 2 for the left module



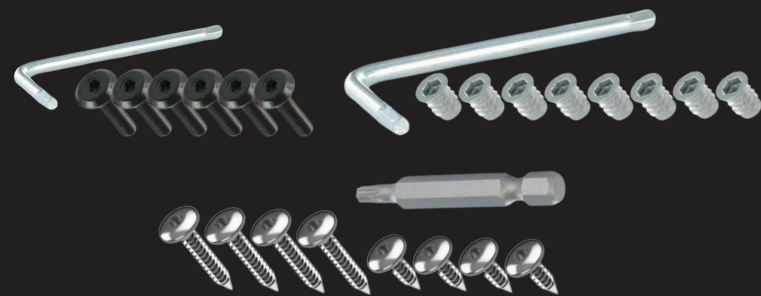
Adjustment / Ergonomics:

Steering Wheel, Pedal, Gear Lever Adjustment

- 5 aluminum rails: Used to allow easy and quick adjustments.
 - 2 rails for the steering wheel.
 - 2 rails for the pedals.
 - 1 rail for the gear lever.
- 7 rail nuts
- 7 thumb screws
 - 6 M8x35mm screws
 - 1 M8x40mm screw

Tools and Fastening Hardware:

- 8 M6 Screws:
 - 6 M6x30 Screws: Fastening the different modules.
 - 2 M6x15 Screws: Fastening the pedal support.
- M4 Hex Key: Used to tighten the M6 screws.
- 8 M6 Wood Inserts: Fastening the different modules.
- M6 Hex Key: Used to tighten the M6 inserts.
- 8 TORX Wood Screws:
 - 4 20mm Screws: Fastening the seat.
 - 4 35mm Screws: Fastening the seat riser.
- T30 TORX Bit: Used to tighten the wood screws.



Additional Purchases Not Included in the Kit:

Wood: To build your simulator, you will need 9.6 m² (103.333 ft²) of wood. Ensure each board is at least 140 cm x 60 cm x 1.8 cm (55.118 x 23.622 inches). Here are some calculation examples based on different board sizes:

Boards of 200 cm x 60 cm x 1.8 cm: Each board covers 1.2 m². You will need 8 boards (9.6 m² / 1.2 m² per board).

Boards of 140 cm x 60 cm x 1.8 cm: Each board covers 0.84 m². You will need approximately 12 boards (9.6 m² / 0.84 m² per board).

Wood Glue: Plan for about 500 ml of wood glue to assemble the different parts of the simulator.

Two-Component Epoxy Glue: You will need about 25 ml of this glue to attach the steel parts to the wood.

Paint (optional): If you wish to paint your simulator, plan for about 0.5 liters of paint to achieve the same finish as in the photos.

Why doesn't the kit include wood, glue, or paint?

This allows you to choose your own materials and colors to further customize your simulator. This approach also significantly reduces shipping costs, whether for short or long distances, by giving you the option to purchase locally near you. Additionally, it avoids issues related to each country's regulations for transporting products containing chemical compounds, which are regulated and therefore costly in small quantities.



Key facts:

Kit Contents:

- **Hexosim Assembly Guide** (English/French languages)
 - List of consumables, protective equipment, and necessary tools
 - Glossary and tips
 - Detailed instructions for each part
 - Optional inclusions: Handbrake support and seat riser
- **Full-scale 1:1 blueprints**
 - Printed on 4 tracing sheets of 1420 x 914 mm.
 - Easily replicable outlines
- **Detailed tutorial videos**
- **3D control and drilling tools**
- **7 steel finishing pieces**
- **5 aluminum rails**
- **Screws, knobs, nuts, and inserts**

Note: Wood, glue, and paint are not provided for optimal customization and reduced costs.



Hexosim DIY Simulator Features:

- **Simulator Dimensions:** 90 x 140 x 77 cm
- **Simulator Weight:** approximately 50 kg (tested on bare pine wood)
- **Supported Steering Wheel Power:** 30 N.m (tested on pine wood)
- **User Height:** From 1.2m to 2.2m
- **Color:** User's choice
- **Numerous adjustments** (steering wheel, pedals, gear lever)
- **High compatibility** for steering wheels, pedals, and gear levers
- **Wide seat compatibility**
- **Possibility to add numerous accessories** (handbrake, control panel, etc.)
- **Screen options** (triple screen, curved/flat screen, TV screen...)
- **Option: upcoming desk tablet**
- **Possible addition of casters**



- ➔ **A unique 30-hour adventure in an exciting build!**
- ➔ **An original chassis with customization to match your style!**
- ➔ **A high-end, handcrafted simulator at low costs!**



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