

- You are going to buy a file (the CAD models of the Sim Racing Pedals), **we don't sell physical product**
- After your purchase, you will be able to download your file in your member area (Account > Downloads)
- This product is protected by Licence. [You are not authorized to sell or share it.](#)

BUILDING GUIDE OF THE PEDALS

▶ [Building guide playlist of the Sim Racing Pedals.](#)

▶ [Building guide of the 3D Printed Sim Racing Pedals](#)

SIM RACING PEDALS PARTS COMPATIBILITY

You can use other parts to build this load cell pedals (apart from those listed in the required parts section), but you will need to check that they are compatible.

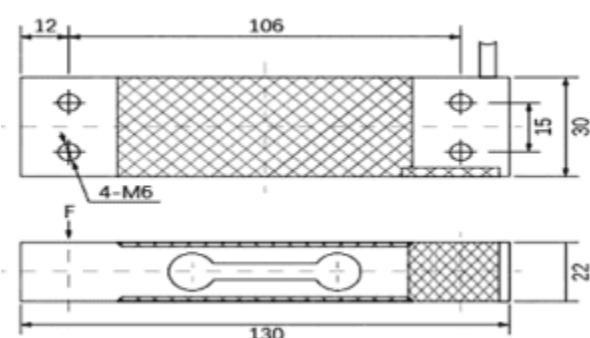
POTENTIOMETERS

- Ohm: 10k is recommended, but 100k can also work (it depends at the USB Board).
- Thread: between Ø6mm and Ø9mm
- Shaft diameter: not to exceed Ø7mm

LOADCELL

Weight: not below 100kg.

Loadcell dimensions:



ELASTOMERS

- ØInside diameter: min. 8mm, max. 10mm
- ØOutside diameter: not to exceed 35mm.

SPRINGS

- ØInside diameter: not below 8.5mm
- ØOutside diameter: not to exceed 28mm

If you use springs with different dimensions, we advise you to create the spring centralizer part. You will need to download [Freecad](#) (it's a free software) and read the tutorial that is provided. Everything is in the [Alternative spring centralizer](#) folder.

ALTERNATIVE FOOTREST:

- [Footrest 1](#)
- [Footrest 2](#)
- [Footrest 3](#)
- [Footrest 4](#)
- [Footrest 5](#)

MATERIAL OF THE DIY RACING SIM PEDALS

LASER CUTTING

As for the [Sim racing sequential shifter](#), we recommend stainless steel. For the few parts that need to be machined, we recommend aluminum because it is softer. The parts that require machining are the following:

- Countersinks holes for the Footrests
- Two holes to drill and tap for the potentiometer levers

All these machining operations can be avoided if you use 3D printing alternatives.

The **thickness of the plates is only 3mm and 5mm**, and it is indicated in the name of the folders.

3D PRINTED PEDALS

We recommend PLA or ABS, the filling will vary according to the pieces, and it will be indicated in the name of the files. [Here are recommendations for printing 3D solid parts.](#)

HAND CUTTING AND CNC MACHINING

I recommend aluminum because it is a soft metal that is easy to work with.

HOW TO GET THE REQUIRED MATERIALS

LASER CUTTING

I advise you to use the 3mm and 5mm "All-in-One" DXF files and request a quote from laser cutting companies near your home. All parts are flat, there are none to bend. So you can compare prices and choose the most profitable. On average, the asking price for cutting a stainless steel pedal is between €100 and €150 including VAT and shipping. You can save money if you make a combined order. For France and Europe, I recommend the company [ALPM](#). They provide a very good quality cut for a reasonable price.

3D PRINTED PEDALS

You can buy a 3d printer or find a 3d printing service like treatstock. Don't forget the infill percentage if you want a strong product (especially for the brake pedal). **The longest part that need to be printed is 220mm.**



Looking for high-quality **3D printing services**? With **Treatstock**, you can easily get instant quotes from professional manufacturers worldwide. Upload your design today and get your **free, no-obligation quote** in minutes! 🚀 [Get Your Quote Now](#)

HAND CUTTING

You need only sheets of papers, printer and [Aluminium plates](#)!

CNC MACHINING

I recommend CNC Machining only if you own a CNC Rooter, otherwise it is not economically profitable enough compared to laser cutting.

SCREWS

[Bolt depot](#), [Motedis](#) and [FixnVis](#).

TOLERANCES

- Laser cutting DXF files and CNC Machining files: 0.2mm
- 3D Printing: 0.6mm