

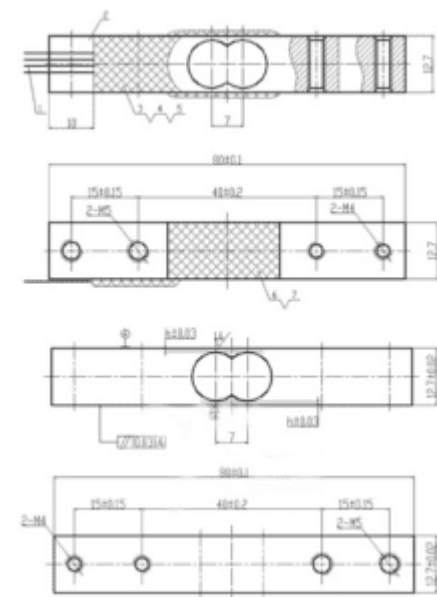
- You are going to download a file (the CAD models of the DIY Loadcell Handbrake), **we don't sell physical product**
- After your download, you will be able to download your file in your member area (Account > Downloads)
- This product is **protected by Licence**. [You are not authorized to sell or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

DIY LOAD CELL HANDBRAKE PARTS COMPATIBILITY

You can use other parts to build this **Homemade Handbrake for PC** (apart from those listed in the required parts section), but you will need to check that they are compatible.

LOADCELL

Weight: 20kg
Loadcell dimensions:



ELASTOMERS

- Ø Inside diameter: min. 8mm, max. 10mm
- Ø Outside diameter: not to exceed 20mm (except if you use M8 washers).

SPRINGS

- Ø Inside diameter: not below 8.5mm
- Ø Outside diameter: not to exceed 20mm (except if you use M8 washers).

MATERIAL OF THE DIY USB HANDBRAKE

LASER CUTTING

I recommend stainless steel.

HANDBRAKE 3D PRINT MATERIAL

I recommend PLA or ABS. You can apply 20% infill for all parts except for the part *Spring Support – Quantity 1.stl*, for this one I recommend 80% or 100%. [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.

REQUIRED MATERIALS FOR YOUR DIY HANDBRAKE FOR SIM RACING

LASER CUTTING

I advise you to request a quote from laser cutting companies near your home. All parts are flat with 5mm thickness, there are none to bend. So you can compare prices and choose the most profitable. You can save money if you make a combined order. For France and Europe, I recommend the company [ALPM](#), and they provide a very good quality cut for a reasonable price.

3D PRINTING

You can buy a 3D printer, or find a 3D printing service like treatstock. The **Homemade USB Handbrake** longest part that need to be printed is 210mm.



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 Router, 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