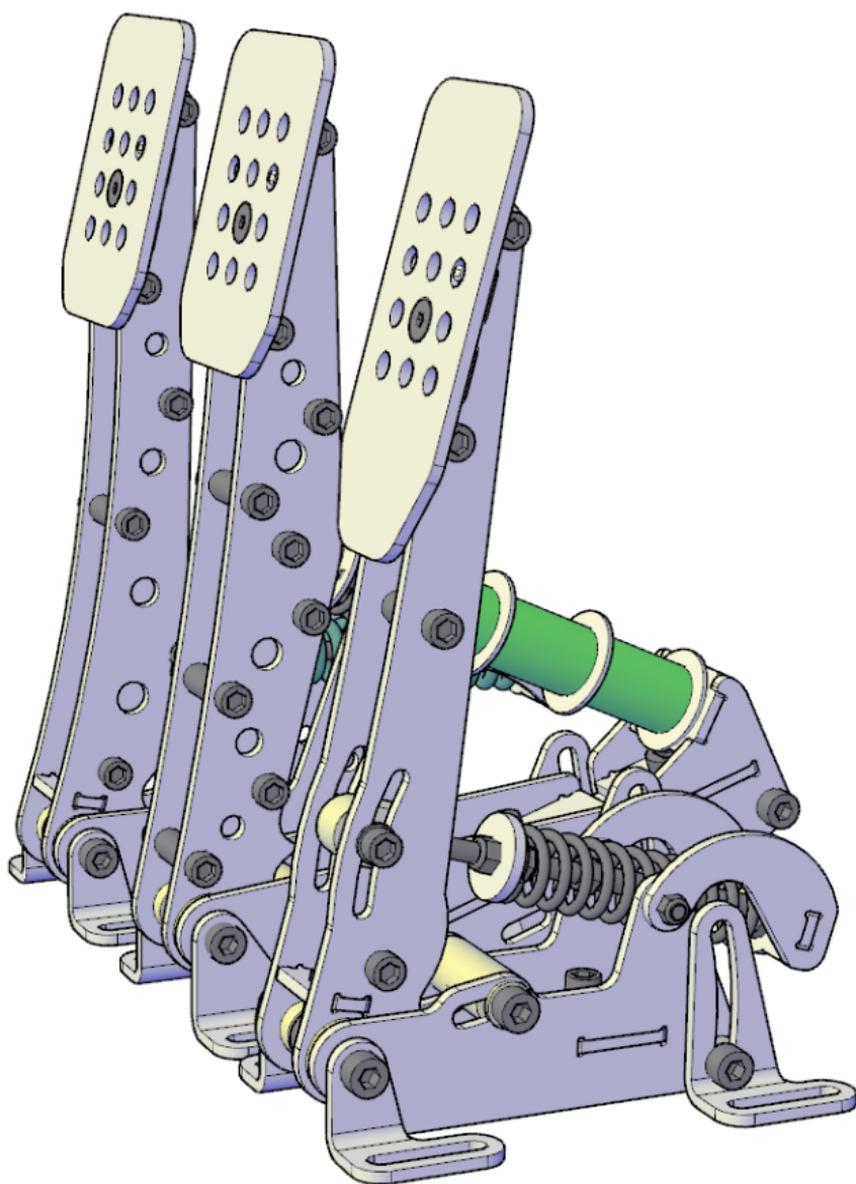


# HEUSINKVELD ENGINEERING



ENTHUSIAST

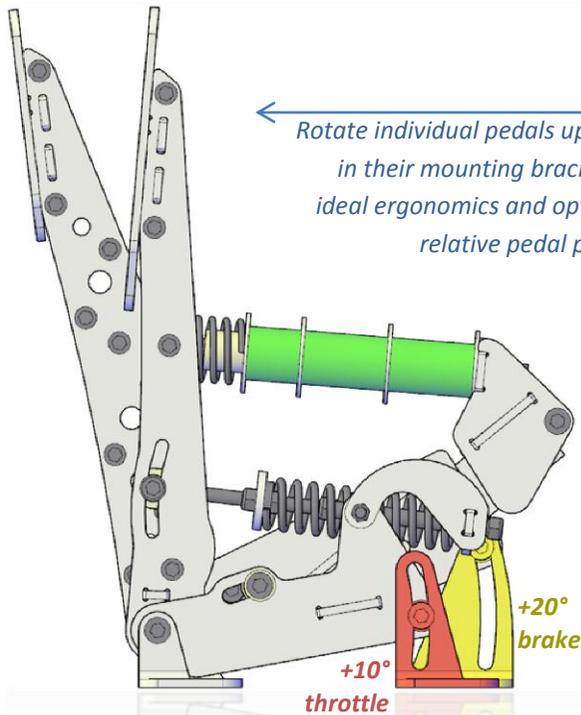
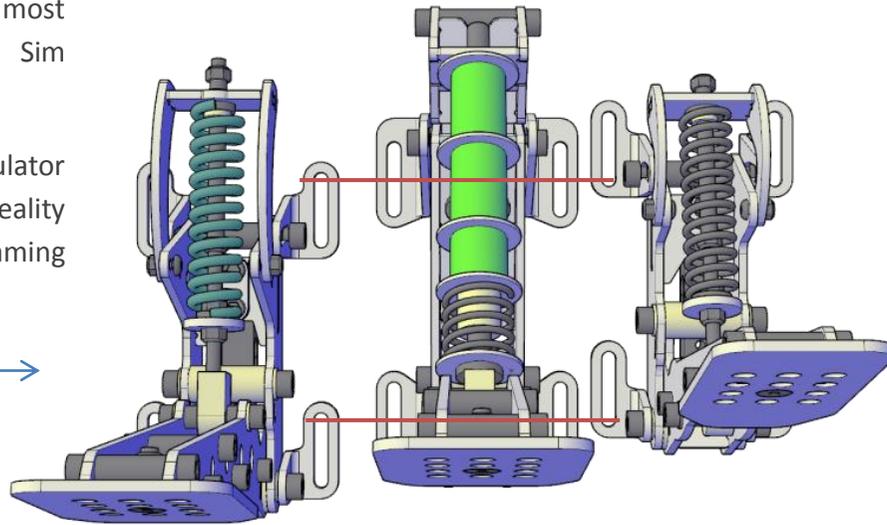
sim pedals

# INTRODUCTION

Race simulations are getting more and more realistic. If you want to up your game, standard pedals won't do the job! Heusinkveld Engineering presents some of the highest quality, most adjustable pedals on the market: the HE Sim Enthusiast pedals, available from €499!

With years of engineering and professional simulator experience, these pedals are designed from reality into your simulator rather than taking gaming products as a starting point. Read on!

Move each pedal fore or aft in its mounting bracket slots for perfect relative pedal position



Rotate individual pedals up to 20° in their mounting brackets for ideal ergonomics and optimized relative pedal position

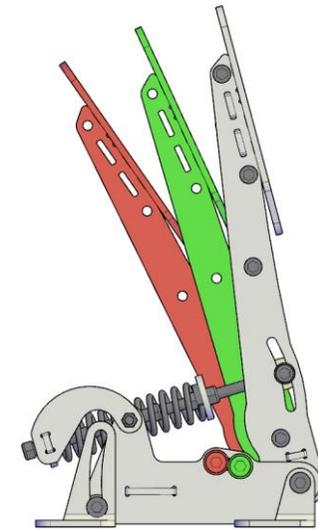
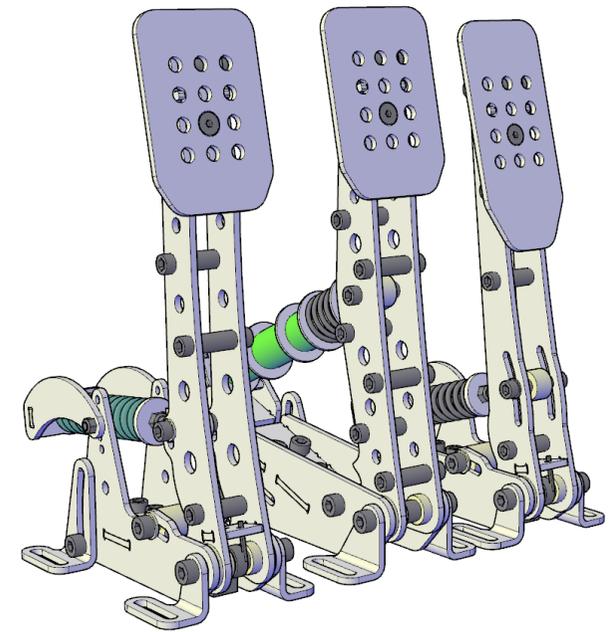
# ENGINEERING

Designed with CAD and FEA, all structural parts are CNC precision laser cut stainless steel. The pedals are strong, stiff, compact and durable.

Mathematical models were made to calculate pedal travel and operating force, predicting with great accuracy how each pedal feels in all of its many different configurations.

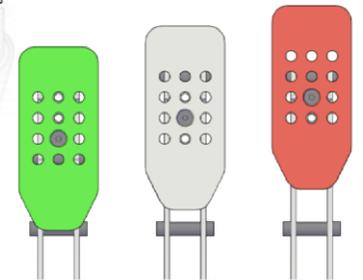
Load cells measure throttle and clutch position and brake pressure. Their linearity, accuracy and durability are unmatched. Custom developed 12bit USB electronics make sure each pedal responds instantly and accurately in your favorite simulator software.

Travel is adjustable from 10° to 20° on the throttle and from 14° to 24° on the clutch. All end stops are 'soft' for a quality and neighbor friendly sound and feel.



Rest position (grey)  
minimum travel (green)  
maximum travel (red)  
throttle pedal

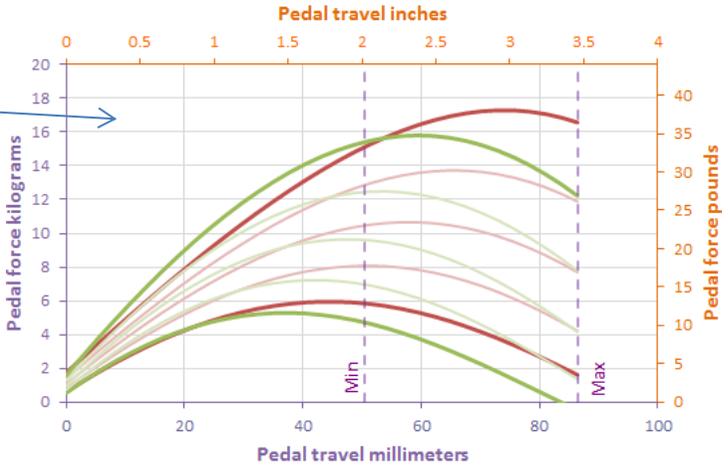
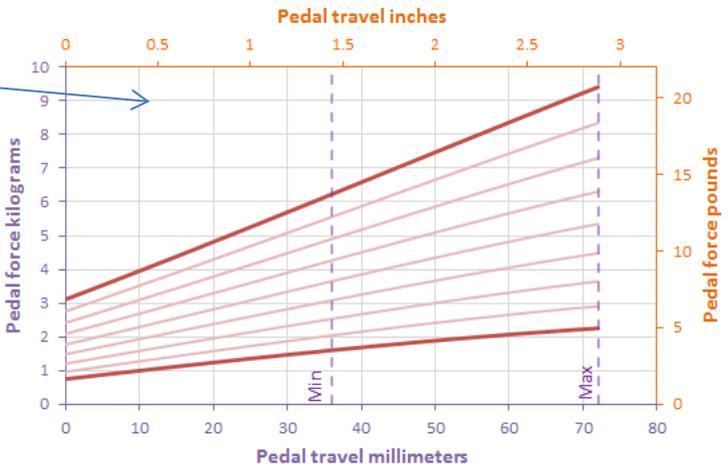
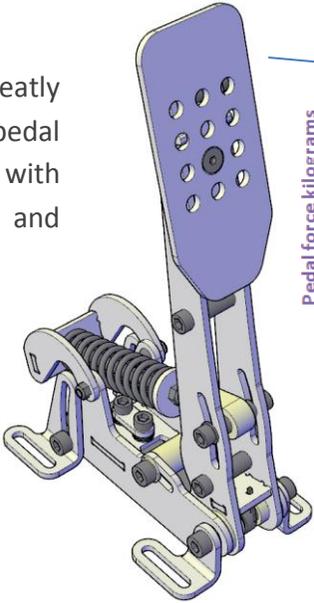
Choose from 3 pedal heights on each pedal



# THROTTLE

Smooth, accurate and greatly adjustable, the throttle pedal gives you excellent control with exactly the travel, pre-load and spring stiffness you prefer.

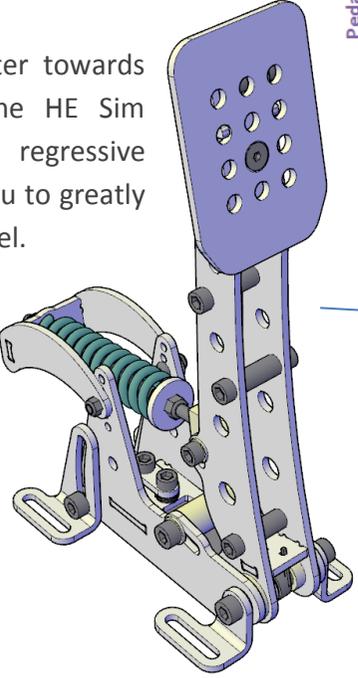
The charts on this page show the various travel and resistance curves for each pedal. The values are measured at the ball of the foot where force is applied. The top of the pedal moves more.



# CLUTCH

Clutch pedals often get lighter towards the end of their travel. The HE Sim Enthusiast Pedals feature a regressive spring mechanism allowing you to greatly adjust the effort, travel and feel.

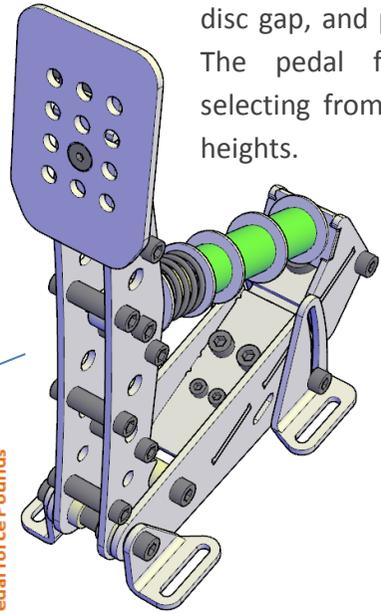
The maximum pedal effort of 17kg or 34lbs is again far greater than that of gaming pedals, but lighter settings are easily selected. There are effectively 15 different feel settings to choose from, 10 are drawn in the chart on the right



# BRAKE

The dual stage brake system consists of an initial coil spring, simulating the pad to disc gap, and progressive rubber springs. The pedal firmness is adjusted by selecting from 10 different rubber stack heights.

With 55kg or 120lbs max force, this pedal easily requires 15x more effort than regular gaming brake pedals! Braking using muscle memory improves consistency, realism and accuracy.



# PRICE & ORDERING

€499 Throttle & brake (approx. \$665)

€599 Throttle & brake & clutch (approx. \$795)

EU customers add 21% VAT. Outside EU customers may have to pay import duties. Shipping €45 worldwide.

**Reserve your spot on the pre order list to ensure you get a set of pedals from the first batch, expected to ship in October 2013!**

No deposits, no obligations, just a first come first serve basis on which we will sell the first batch of HE Sim Enthusiast pedals! Get in touch today at [info@h-engineering.nl](mailto:info@h-engineering.nl)

# NOT EXTREME ENOUGH? GO PROFESSIONAL!

For professional users and ultra-hardcore simracers, the HE Sim Professional pedals are the big brother of the Enthusiast pedals. With up to 136kg or 300lbs brake pedal force and up to 45kg or 100lbs on the clutch, virtually all real vehicles can be simulated accurately. Hydraulic dampers add further realism and control. Prices start at €899, contact us for more information!