Anatomy-customized saddle ◦ Your design

The Story
Meld Solutions was founded in Jan 2015 with the goal of customizing each individual's surroundings to realize their full potential. That's lofty so we begin with bicycle saddles: rather than you spending time and money looking for the perfect saddle that may not exist, we make it for you.

What We Do
We create bicycle saddles based on your anatomy, ensuring fit from the start. Our cloud service combines your anatomy's geometry with your inputs to generate the ideal saddle model. We then create a carbon fiber saddle from this model in-house at Meld in California.

Cloud Algorithms
Our cloud service includes algorithms that shape your saddle model based on your anatomy and inputs. These inputs and algorithms have been updated and tuned based on feedback from past users. In short, the collective knowledge and experiences of past users are incorporated into an online service that is available to all.

How It Works

1. You sign up for a free account at meld3d.com.
2. The account begins with a dummy anatomy geometry, which you can use when adjusting the input parameters and observing their effects on the resulting three-dimensional saddle model.
3. Once you decide to proceed and pay, we ship an impression foam to you.
4. You sit on the impression foam to capture your anatomy's geometry, then mail the kit back.
5. We scan the foam, and upload the geometry onto your account.
6. You design your saddle shape and graphics, hit submit.
7. We make and ship your saddle to you.

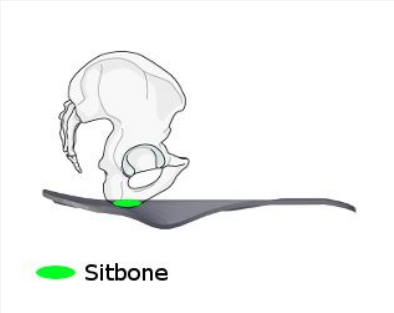
Input Parameters

We list below the primary adjustable input parameters that shape the saddle, the full set can be found at meld3d.com/saddle_parameters.

2d outline	This is the two-dimensional outline of a saddle as viewed from above, not to be confused with the resulting three-dimensional model. It serves as a starting template, doesn't impact comfort, and is selected based on personal preference.
Channel/ cutout	A channel can be added for those with perineum or soft tissue concerns. For those with significant issues, a cutout can be added.
Movement fore/aft	Saddle tapering from sitbone area to the saddle front is adjusted based on your tendency to move forward and backward while riding. This provides support at the various positions.
Rider weight	The saddle shell's carbon fiber layout is adjusted based on your weight to provide optimal flexibility, improving comfort over long distances.
Graphics	Saddle graphics can be altered to reflect your team/club, nationality, and name.

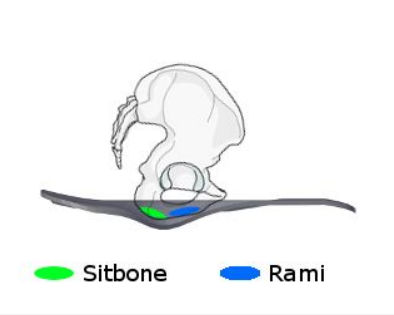
Supported Sitting Positions

Each Meld saddle supports three primary sitting positions: upright, rotated-forward, and on-the-nose.



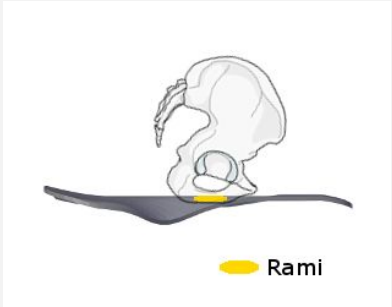
Upright

The upright position is suitable for initial saddle setup and climbing with hands on tops. Weight should noticeably be on the sitbones.



Rotated-forward

Having the hips rotated forward is suitable when riding on flat terrain, in the drops or on the hoods with elbows bent. Both the sitbone and rami are in contact with the saddle. This is the most comfortable position due to the contact/pressure distribution area being the largest.



On-the-nose

The time-trial position is the most aggressive with all weight placed on the rami. There is little or no pressure on the sitbones as the hips are rotated even more forward. Furthermore, pressure should be placed on the bony part of the pelvis (rami), not the perineum.

Specifications

Materials	Each saddle is made of/from - carbon fiber shell - either carbon or metal rails - synthetic leather cover - EVA foam padding
Weight	Dependent on the two-dimensional outline, padding thickness, sitbone width, type of rail. Examples: - Tunitas, 3/16" padding, clipped width 110mm, metal rails - 260g - PageMill, 3/16” padding, 130mm width, carbon rails - 132g - Hamilton, 1/8" padding, 140mm width, carbon rails - 126g
Application	Carbon rails - road cycling only Metal rails - road cycling and cyclocross
Weight limit	Carbon rails - 180 lbs / 80 kg Metal rails - 240 lbs / 110 kg
Price	With carbon rails - US$325 With metal rails - US$250

Manufacturing Info
All Meld saddles are made in-house at our facility in California. All suppliers of raw materials are US-based, and we rely on Amazon Web Services to host our cloud service.

Shipping
Meld is currently shipping only within the US.

About Us
Ethan Ee is the owner and founder of Meld Solutions LLC. He received a PhD in Computer Science from University of California, Berkeley, and worked at Google and a couple of startups. Ethan enjoys cycling, solving difficult problems, and staying up-to-date with new enabling technologies.

Media Info
Contact: Ethan Ee, media@meld3d.com
Press kit: https://www.meld3d.com/media

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