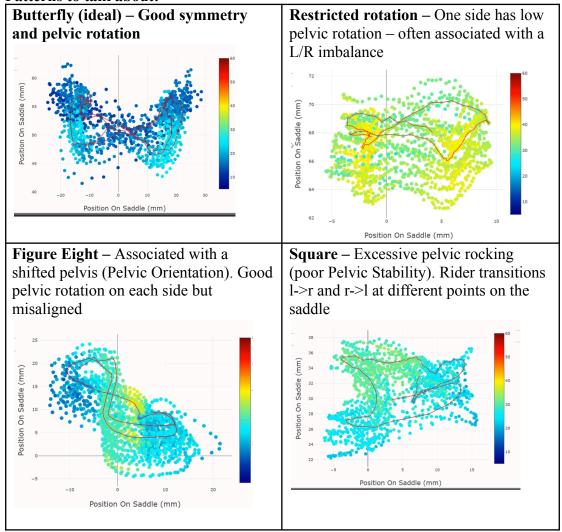


Body Rocket Fit Use Case Videos Highlights

Overall observations:

High power data tends to improve imbalance/asymmetry issues Moving a saddle forward often results in the rider being in the same position, but using a different part of the saddle

Patterns to talk about:



Definitions:

Pelvic Stability – magnitude of movement along the x axis (side to side rocking) **Pelvic rotation** – magnitude of movement along the y axis (fore-aft movement during ½ of pedal stroke (1 wing of the butterfly)

Pelvic loop – The path taken by the center of mass as the rider moves through one pedal cycle. It is a plot of x (pelvic stability) and y (pelvic rotation) axis of a pelvic stability plot. This can form a butterfly or any of the other shapes shown above

The benefit of looking at the pelvic loop is that there are many ways a rider can generate the same pelvic stability and pelvic rotation values. Being able to see the path being taken helps a fitter understand the underlying mechanisms, and better treat the client.



Pelvic Orientation - as viewed from above a twist in the pelvis that results in one side sitting further forward than the other on the saddle

Saddle Imbalance - The % (or possibly x measurement in mm) imbalance between right and left weight distribution. If this is due to a rider sliding up against one side of the saddle nose it's possible that a wider nose will help rebalance the rider

Individual Videos

Eric – Track cyclist, old injury of lower back that caused right hip to drop & resulted in knee pain. Has managed this for 10+ years with physio prescribed core strengthening exercises. He generally has a 55% left leg power balance.

Video:

https://youtu.be/IYsmk7JcZOs

Overall:

Left side of pelvis has very little movement in most positions.

Observations:

- 1. Right side pelvic loop was generally 6-8mm high (normal)
- 2. Very low pelvic rocking, possibly due to core strengthening exercises
- 3. Switch to Zoncolan removed L/R imbalance, reduced already low pelvic rocking
- 4. On Zoncolan left side of pelvis freed up, matching the 6-8mm of movement seen on the right side

Conor – Off road cyclist and runner. No cycling injuries but tends to drop his hips towards the impacting foot while running (?? – need to ask Conor for clarification)

Video:

https://youtu.be/1CFqjpdwTaM

Overall:

Generally centered and symmetrical. Notable for having 20-25mm of pelvic rocking regardless of saddle location or type. This is on the high side of normal. 10-12mm high pelvic loops. Also on the high side of normal.

Observations:

1. Slight right imbalance on San Marco saddle

Matt – recreational triathlete with a debilitating golf problem. No other known physical impediments.

Video:

https://youtu.be/fymcyFFhtTE

Overall.

Rotated pelvis that displaces left pelvic loop roughly 6-10mm further forward than right loop. In aggressive positions this results in his left thigh hitting his chest. Carries



a 3-5mm imbalance, favouring the right side. As a result, left side of pelvis has restricted movement.

Observations:

- 1. Twin-nosed ISM acts to partially correct rotated pelvis, but not left/right imbalance
- 2. With ISM saddle, pelvic loop becomes more of a pelvic square. Right -> Left cross occurs 10mm back from Left -> Right cross