

### **ABOUT US**

Centaur Biomechanics founded by Russell Guire in 2006, is a leading biomechanical company whose sole aim is to help horses and riders of all levels achieve their goals. Centaur has worked with the British Equestrian Federations World Class Programme since 2006, as well as delivering lectures at over 100 conferences throughout Europe on equine & rider biomechanics and working on several research projects. More recently Centaur has been part of a high profile project looking at the effect a girth has on performance. Results of which were exclusively available to the British Equestrian Federation until after London 2012 – (See H&H, Team GB Secret Weapon, August 30th 2012).

Centaur also designed and patented its own product range, Visualise, specifically designed to help improve a riders position. Centaur founder, Russell holds a degree in Equine and Human Sports Science is a UKCC Coach and a regular competitor he has also worked with the greats of Tim Stockdale and Di Lampard as well as training in Germany.

Centaur enjoys working with horses and riders of all levels and feels that gait analysis is an expanding area throughout all levels.

#### COSTS

Farrier Analysis £60.00 + VAT

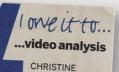
Gait Analysis £200 - £250 + VAT

Travel charges may apply in addition.

# Don't just take our word...

Check out our website for magazine articles, testimonials and Facebook, Twitter, You Tube, H&H and BD Forum.

Check out our YouTube channel for a short video on gait analysis.



COLLETT topped the novice restricted music

with Wendel (pictured), a 10-year-old by Weltmeyer. She credited her horse's improved way of going and straight eights for the canterwork to video analysis and remedial shoeing.

"A year ago, I felt he wasn't quite right, but vets said he wasn't lame," she said. "My saddler Mark Fisher put me in touch with Russell Guire at Centaur Biomechanics in Warwickshire. Russell videoed the horse's paces and established unevenness in the way he used his hindlegs, which suggested his back feet needed more support.

"Itook him to Oakham Veterinary Hospital and their remedial farrier Martin Deacon has been shoeing him ever since, subtly changing the hoof shape and rebalancing the foot. Every time the horse is shod, you can feel the difference as he immediately has more power."



# HORSE MOVEMENT AND FARRIER ANALYSIS

Working with you, your farrier, vet, physio and saddler to help your horse

## **OUR VISION**

To help horses and rider of all levels achieve their goals.

Since 2006, Centaur Biomechanics has provided gait analysis to the British Equestrian Federations World Class Programme as a way of monitoring horses to help improve performance and maintain soundness.



## **CONTACT US**

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# WHY WOULD YOU USE GAIT ANALYSIS?

- Evaluate your horses soundness and asymmetries.
- Evaluate any weakness and provide advice on support.
- Evaluate your horses foot balance.
- Ultimately helping to prevent injury and maintain soundness.

#### **HOW IT WORKS**

- We will come to your base or you can come to the Centaur base in Warwickshire.
- Markers will be placed on your horse.
- · You will walk and trot along a designated track.
- We will then capture some data.
- Data will be processed the following day.





### **TECHNICAL ASPECT**

- Markers are placed on the horse's skin which identify joint centres, these are used so that the system can track the markers and work out how much each joint is moving.
- Centaur uses high speed cameras which capture at 300 frames per second, to put this in to context this is 25 x faster than the human eye. We are looking for subtle changes within the gait pattern which could indicate weakness / lameness and if left undetected could manifest in to an injury. Most horses are asymmetric however it is being aware of these asymmetries so that support mechanism can be in place to help and maintain soundness.
- The files are processed using Quintic Biomechanics software which is a leading 2D video analysis system used and proven in equestrian and other sports.
- All of the results are generated by software removing any biased or subjective opinions.
- A report is produced with a step by step explanation of how your horse is moving.

# WHAT WILL YOU GET

- You will see slow motion images of foot balance on the day.
- You will receive all farrier files and FREE software within 3 days.
- · You will the receive a detailed report within 5 days.
- You will then receive a follow up call ref the report to check you are happy.

"I have worked extensively with Centaur Biomechanics during the testing and development of products designed to improve the horse's performance. It's a great way of getting the horse's "opinion" on a new product, as it allows you to assess the differences in their way of going during each step of product design."

Vanessa Fairfax of Fairfax Saddles Ltd

