



Revolutionary Equine Hock Angle Analysis

POWER, IMPULSION, ENGAGEMENT

Winning attributes that can now be measured!!!

The hock is an important factor in generating these characteristics and with ETB-Pegasus Hock Angle Analysis you can easily measure the action of hock flexion/extension 'in the field'.



What questions will it answer?

- Does my horse 'push' evenly behind?
- Does my horse become more engaged if I use a training aid, and if yes, by how much?
- Do hock treatments make a difference and if yes, when will another treatment be needed again?

THE ETB-PEGASUS HOCK ANGLE PROFILE SYSTEM 'EA-2'

1) What is the hock angle analysis system?

The system is an upgrade to the ETB-Pegasus Limb Phasing and Cannon Angle systems, adding considerable in-depth analysis of the hock angle movement.

2) Carrying out a trial

The brushing boots and gaskin straps containing sensors are placed on the horse's hind limbs. The horse stands still for 5 seconds to calibrate the sensors and then the test begins. Each test can have an appropriate protocol: it can be a simple trot up, exercise work on a treadmill or, circle and straight work, ridden and/or unriden at walk and trot on any surface.

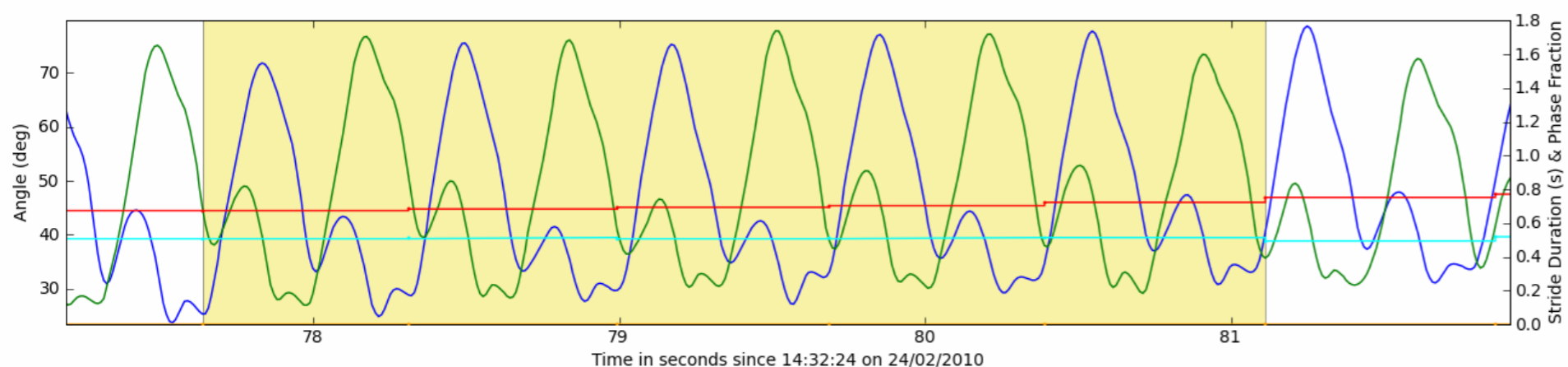
3) Analysing data

The sensor data is processed and all the parameters automatically presented, simply by connecting the sensors to the notebook and selecting "Analyse". Data is presented in three forms:

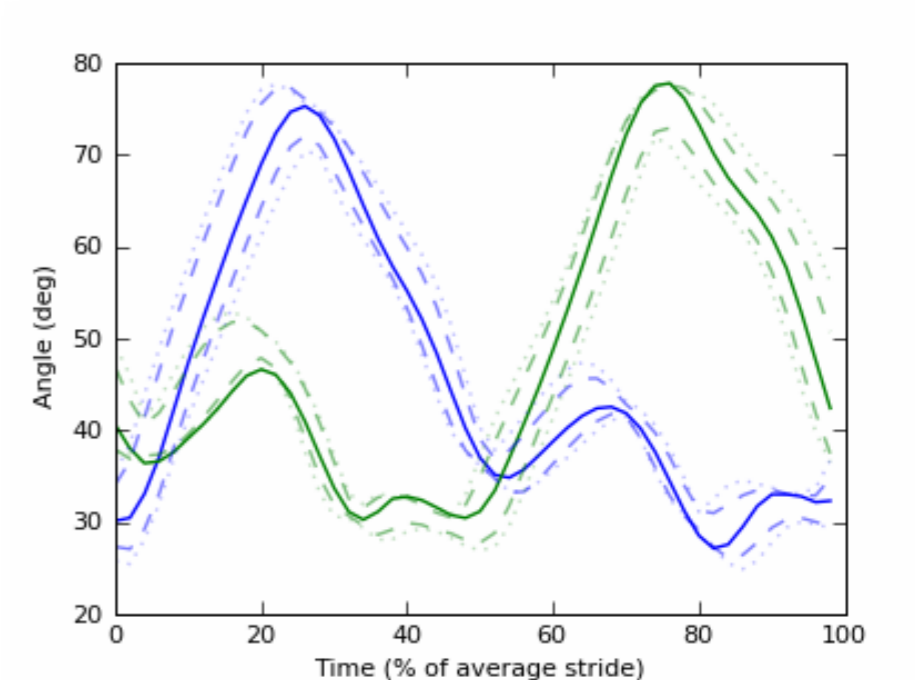
1. A graph of the entire trial and the ability to zoom in.
2. One summary graph for each limb.
3. Summary statistical table.

In this example the hock angles are calculated for trot over 5 strides (shaded yellow region). The typical stride is calculated for the left (blue line) and right (green line) hock, together with the standard deviation (dashed lines) and minimum/maximum values (dotted lines).

1) Zoomed in trot section of trial



2) Graphical summary of angle



3) Summary of the 5 strides

	Left hock	Right hock
Typical Peak to Peak (deg)	47.45	47.24
Minimum Peak to Peak (deg)	46.77	44.30
Maximum Peak to Peak (deg)	48.13	49.72

A summary of the findings for the provided example.

This example shows that the total flexion angle on the left and right hock joint was the same and the variation over the 5 strides was minimal. The profile of the left and right hock angle was also very similar. In summary, the hock movement at trot was symmetric. There were no apparent issues with this horse.

Some of the many applications

ETB's products give accurate and repeatable numerical information, not currently otherwise obtainable, across a wide spectrum of activities;

- Research, education, colleges, universities: a far greater depth of research is possible simply due to being able to use the system in real life situations, with or without a rider.
- Diagnosis: measurement of the hock profile to determine whether the horse has a normal symmetric gait pattern.
- Monitoring: after treatment, monitoring of recovery to ensure the horse is doing well, allowing for early corrective treatment.
- Training: teaching people how to train their horse to move more efficiently and effectively, e.g., training the elite horses where riders are looking for that extra 1% in performance.



Existing products & services.

ETB also operate a service where you can have trials carried out at your college or yard. Please call or email for details.

You may be interested in other products in the ETB-Pegasus range. See the web site for more up to date information www.etb-pegasus.org