

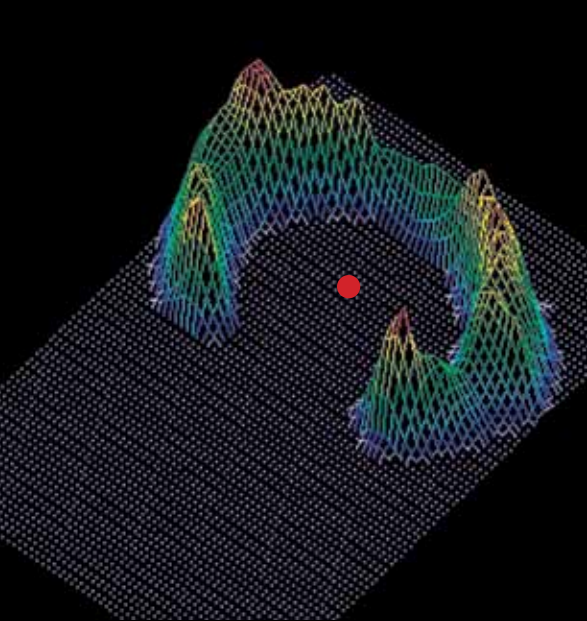


**Better Design for the Life of the Shoe**

Unlike most aluminum shoes, the Equi-Librium Aluminum does not employ a steel insert. Extensive testing shows that Equi-Librium shoes without steel insert have significantly better wear patterns, preserving the design advantages for the entire life of the shoe.

Since its introduction, the Equi-Librium horseshoe has become the premier choice for top sport horses, and for anyone who wishes to enhance performance and reduce injuries. Now Mustad is proud to unveil the Equi-Librium Aluminum—equal in performance with significantly less weight. When a fraction of a second can make the difference between winning and losing, the Equi-Librium Aluminum provides a distinct advantage.

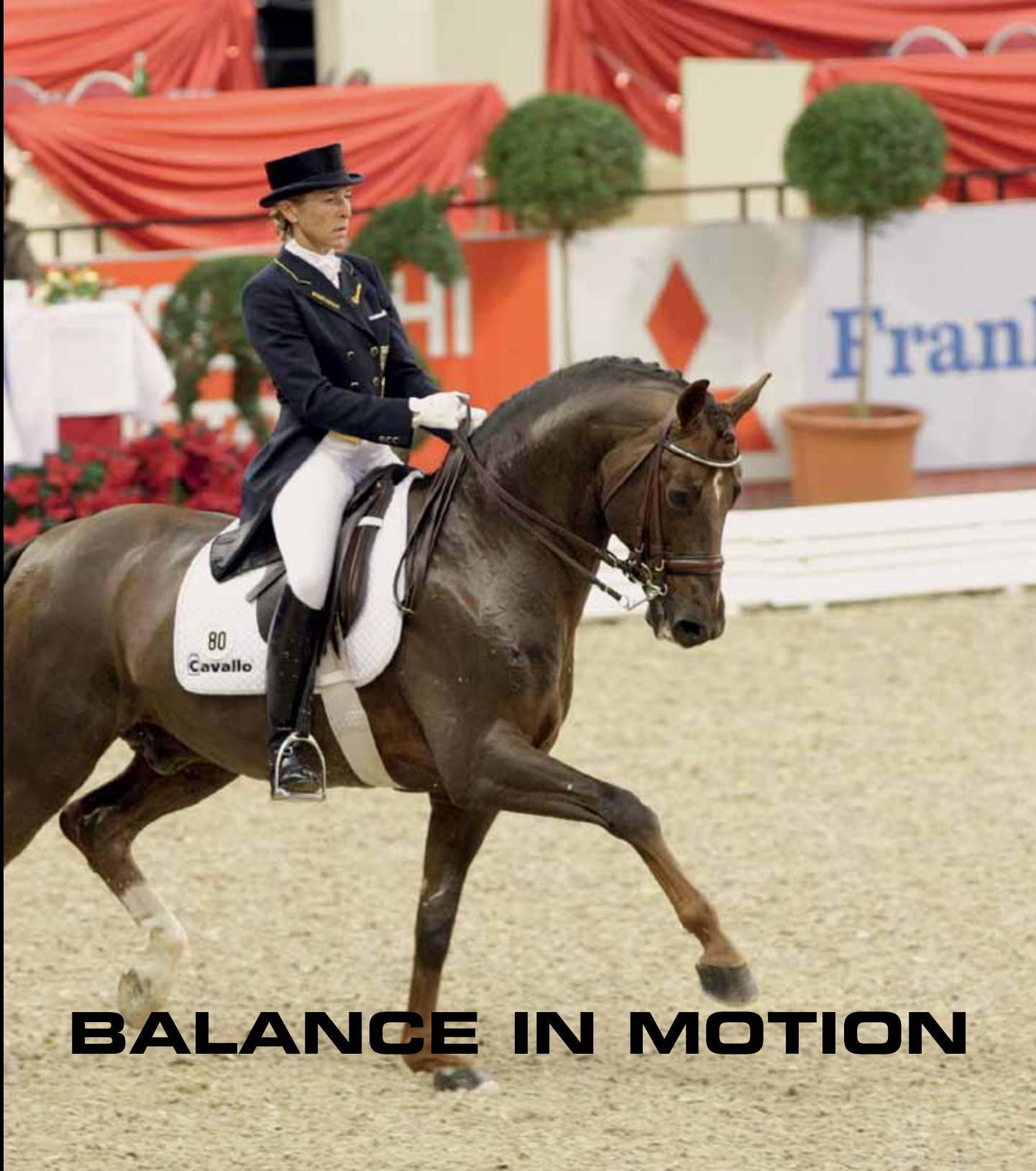
**The Benefits of Aluminum**



The scientific studies that led to the development of Equi-Librium and Equi-Librium Aluminum were conducted at the Faculty of Veterinarian medicine, Utrecht University, The Netherlands. Researchers used state-of-the-art equipment to visualize and measure the movement and loading of the equine limb.

This image shows a 3-dimensional snapshot at mid-distance underneath the hoof. The pressures are color coded: blue represents the lowest pressure and red the highest. The red dot in the center of the measurement represents the center of pressure (CoP) at that point in time. The CoP moves in a specific pattern while the horse is moving.

Once the heels start to leave the ground, the CoP travels first in the direction of the outside of the hoof, only to return to the middle of the toe area shortly before lift-off. This specific hoof-unrollment pattern is one of the reasons why the Equi-Librium shoe has been rounded in two directions.



**BALANCE IN MOTION**

As a horse moves, he constantly seeks to maintain the center of pressure in each hoof. In this, he is aided by a well-balanced shoe. The Equi-Librium shoe locates the center of mass in the center of the shoe in order to help the horse maintain his ideal center of pressure.

*Improves balance*

The freedom of movement a horse experiences wearing Equi-Librium can significantly reduce this burden. In fact, the changed hoof-unrollment pattern also affected the joint and tendon loading and led to a mean lower peak of 14%. This indicates a less abrupt and lighter loading of the internal structures of the equine digits (joints and tendons) and hence can be presumed to decrease the risk of injury from overloading.

limb loading approaches capacity. faster gaits, turning, or any activity in which in any direction—a distinct advantage during limbs. Furthermore, the horse is free to unroll gradually compared to a standard shoe. This design helps horses to better coordinate their horse to unroll his foot on average 33% more in tests, the Equi-Librium design allows the more natural gait—in every direction.

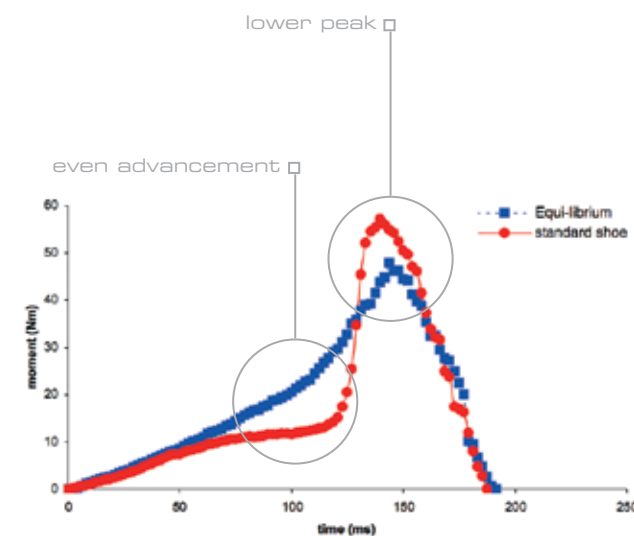
The rolled toe of the Equi-Librium horseshoe provides a precision match to the natural “unrolling” of the horse’s hoof as it lifts from the ground. This feature allows the horse a

*Enables a natural gait and reduces loading*



This graph shows the difference in measurements between a standard shoe and an Equi-Librium shoe. Every dot in the graph represents one point of measurement during the cycle of loading and unloading of the limb. The lines represent the loading pattern on the coffin joint, the navicular area, and the tendons around this joint.

1. The dots towards the peak lie closer together indicating a more fluent loading pattern.
2. The average peak loading of the limb is substantially lowered by 14%.



For the detailed results of this study see: Van Heel, M.C.V., van Weeren, P.R. and Back, W. (2006) Shoeing sound Warmblood horses with a rolled toe optimises hoof-unrollment and lowers peak loading during breakover. *Equine Vet. J.* 38, 258-262.

Equi-Librium horseshoe is uniquely suited to enhance the anatomy and natural motion of a horse - and especially during peak performance.

**Designed with Horses in Mind**

The intelligent design of the Equi-Librium makes it the premier choice for top sport horses around the world. Ultimately, prevent injuries.

improve performance, reduce loading and range of motion, the Equi-Librium helps supporting the horse with a balanced, free Equi-Librium is that shoe. Simply by shoe—one that works with the horse. The motion can be enhanced by an intelligent unique anatomy and habits of a horse in These investigations demonstrate that the

world’s most experienced farriers. input and field testing of some of the diversity in the Netherlands, as well as the research undertaken at the Utrecht University is informed by rigorous scientific load and the risk of injury in horses. The design is informed by rigorous scientific research undertaken at the Utrecht University in the Netherlands, as well as the input and field testing of some of the

**A Revolution in Horseshoe Design**

**EQUI-LIBRIUM ALUMINUM**

Balance in Motion



The world’s best performing horseshoe just got 65% lighter.



Introducing the all-new Equi-Librium Aluminum.

# Balance in Motion

The world's best performing horseshoe just got 65% lighter. Introducing the all-new Equi-Librium Aluminum.

With the same superb features as steel but at a much lower weight, the Equi-Librium Aluminum is ideal for:

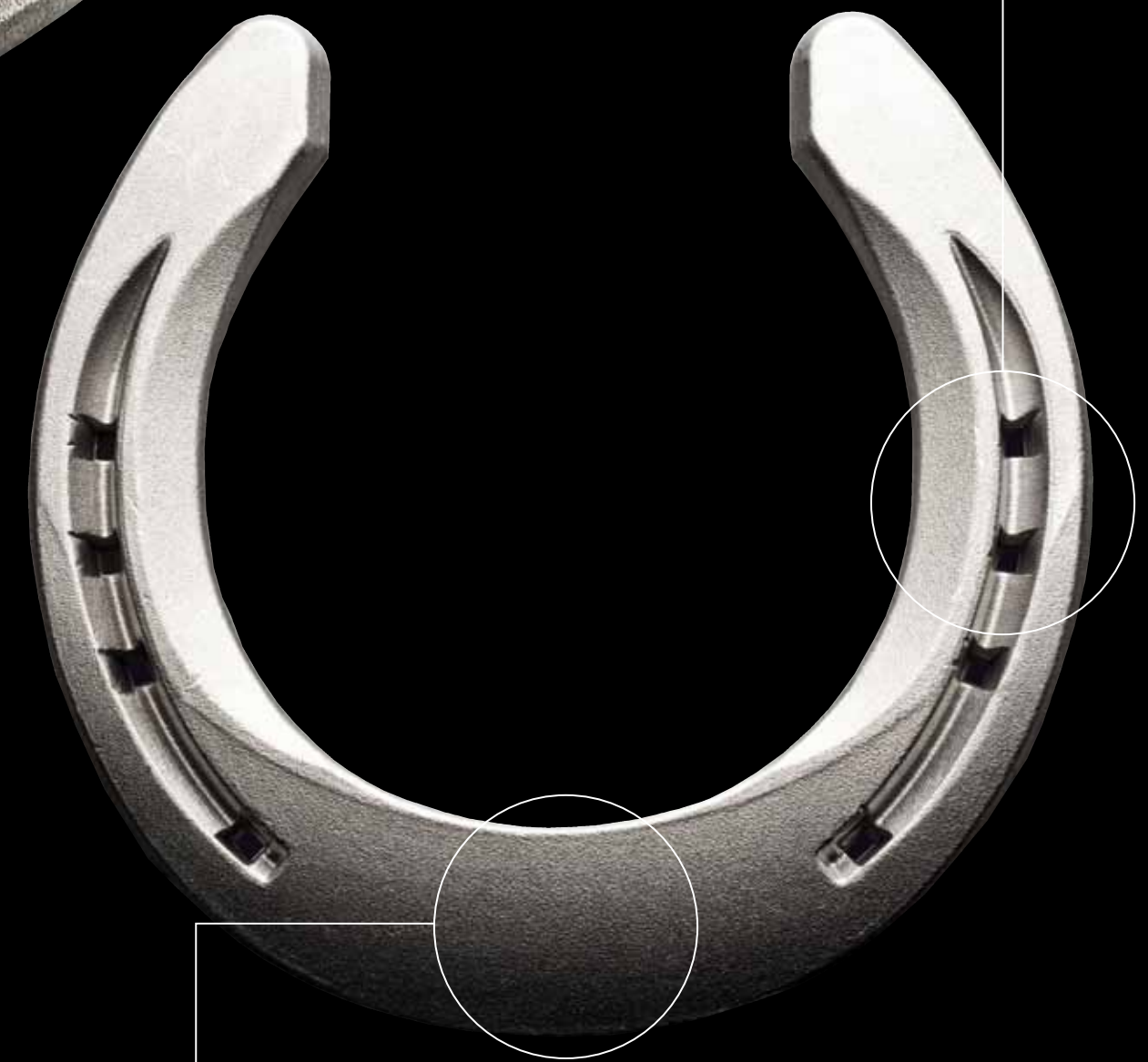
- Competition horses with extra knee action (i.e. horses judged on movement, such as hunters)
- Horses in rehabilitation after a leg injury
- Horses sensitive to strain or loading injuries
- Horses requiring additional support provided by sole pads or silicone without increasing overall weight per foot



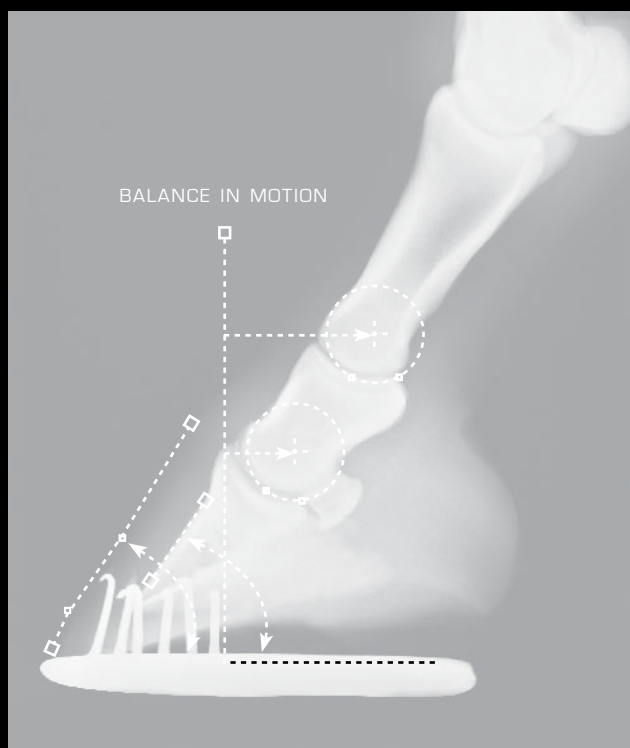
There is 'sole relief' on the hoof surface of the shoe in order to prevent sole bruises in the toe.

The branches are concaved to make it lighter in weight and to assure that sand and dirt can easily fall out of the shoe.

The end of the branches are kept full, to provide optimal support while landing and to maintain enough surface for stud holes.



Rounded in the toe in 2 directions: sideways and in the direction of the toe, to ease the process of hoof-unrollment in all directions.



For each shoe size all shoe proportions have been scaled accordingly. All dimensions are adapted to assure a perfect balance in the Equi-Librium shoe.

SIZE	DIMENSIONS		SIZE NAIL HOLES		THICKNESS FOR ALUMINUM
	W	L	Size of Nails	Type	
3x0	122	122	3	ESL, EXL	9,2
2x0	129	129	3	ESL, EXL	9,7
0	135	135	4	ESL, Concave	10,2
1	142	142	4	ESL, Concave	10,5
2	148	148	4	ESL, Concave	10,8
3	154	154	5	ESL, Concave	11,1
4	161	161	5	ESL, Concave	11,5