

RACER™

the ergonomic horseshoe

A WORLD PATENT!





Winners don't take any risks

The difference between a human and a horse may seem enormous, but the same type of repetitive strain injuries that happen to humans also happen to horses.

This was our starting point when, several years ago, we started to design and develop RACER – the world's first ergonomic horseshoe.

In collaboration with researchers, tool manufacturers and some of Sweden's best-qualified horse experts, Svenska Elitskon AB has designed a horseshoe that gives your horse a natural "barefoot" stride which prevents injury. Moreover, it has an excellent glide and grip function.



RACER is patent pending and has obtained design protection.



Erik Lundqvist, who treats humans suffering from orthopedic pain, is the innovator behind RACER – the ergonomic horseshoe whose unique construction protects the horse from repetitive strain injuries. He observed that basically horseshoes have been made of the same materials for 400 years.

“A traditional horseshoe made of iron or aluminium causes the length of the hoof’s glide to decrease compared with an unshod hoof. Such material is also inelastic and is easily deformed. That results in an enormous strain on the horse’s hoof, leg, joints and ligaments. RACER, on the other hand, allows the horse’s hoof to glide naturally when it touches the ground. It is constructed and adapted to follow the hoof’s mechanical motions on uneven surfaces without losing shape while also giving excellent support. The design also minimizes the risk of the shoe being lost. The shoe keeps its shape much longer and therefore the horse needs shoeing less frequently.”



1. ROUNDED AT THE FRONT

Decreases friction when touching the ground.
Decreases the risk of repetitive strain injuries.
Minimizes the risk of injuries caused by trampling and fighting.
Decreases the load on the nails.

2. HOLLOWED OUT GRIP WALL

Increases grip and reduces weight.
The inside of the grip never gets rounded off and therefore retains its function.

3. NARROW GRIP WALL

Causes the shoe to sink down into the ground surface and gives both grip and balance. The more gravel there is under the hoof and inside the grip wall, the better the grip will be. Racer has approximately 20 cm² more space for gravel under the hoof than a traditional full swedge shoe of the same size.

4. NAIL HOLES MADE FOR ASV NAILS (RACE NAILS)

The ASV nails fit the shoe's low height because they have a lower head than E-Slim, for instance.

RACER FOLLOWS THE HOOF'S MOTIONS

The stride becomes less rigid, reducing strain on the hoof and nails, due to the unique qualities of the boron steel.

The horseshoe that reduces injuries and improves performance

Two challenges have inspired the development of RACER: to design a horseshoe that can live up to the high performance of racehorses and also prevent hoof, leg and joint injuries.

Traditional full swedge shoes drastically reduce the length of the horse's glide. That induces an enormous strain on legs, joints and ligaments. By using RACER, this risk of injury is avoided.

The design minimizes the risk of the

shoe getting pulled off and the shoe retains its shape much longer than other makes of shoe on the market. This means the horse needs shoeing less frequently.

RACER is ergonomic and has elastic qualities that follow the hoof's natural motions. A special steel alloy developed in collaboration with the tool manufacturers Bahco has resulted in a very strong and durable shoe that retains its shape. The development of the shoe has been going on for four years with extensive testing in Sweden, Italy, France and the USA.





Lars Roepstorff, veterinary surgeon at the Centre of Hippology at the Swedish University of Agricultural Sciences in Uppsala, has tested RACER at the Solvalla Racecourse.

Tests at Solvalla Racecourse show that RACER gives gait symmetry

Using a high-speed camera at the Solvalla Racecourse, Lars Roepstorff, veterinary surgeon at the Centre of Hippology at the Swedish University of Agricultural Sciences in Uppsala, has tested RACER in a preliminary study. His evaluation indicates that the RACER shoe gives the horse improved balance and symmetry in its trotting gait.

“RACER is an interesting shoe that has been developed to provide a trotting shoe with more advantages than any

other shoe on the market. It is light and very durable with a shape that promotes good grip. Moreover, it enhances the hoof’s natural function. RACER is designed to approximate the gait of a barefoot horse and to allow the horse to retain its stride balance. The preliminary study indicates that the stride of horses shod with RACER is more like a barefoot stride than is that of horses shod with comparable traditional light shoes,” says Roepstorff.

Comments on RACER



STIG H JOHANSSON:

“Besides being light and very durable, I think that the RACER shoe has a grip that resembles the barefoot grip. Horses that would normally race barefoot, but for some reason cannot do so, benefit enormously from RACER.”

ROBERT BERGH:

“RACER has the perfect grip. The fact that the shoe also lasts for a long time is a great financial advantage.”

DANIEL KJELLBERG:

(farrier for Robert Bergh)
“RACER’s greatest advantage for the hoof is that the metal does not lose its shape between shoechanges. The shoe is light and elastic while also being much stronger than other light shoes.”



FREDRIK B LARSSON:

“We have tested RACER in France in the winter. I think the shoe improves the stride compared with other shoes and it is very similar to barefoot grip. RACER is the best shoe I’ve ever tried.”



ACKE SALMINEN:

(farrier for Stefan Melander, Hambletonian winner)
“RACER has the best functional design of all shoes on the market. One big advantage is that the shoe is made of hard metal which supports the hoof firmly.”

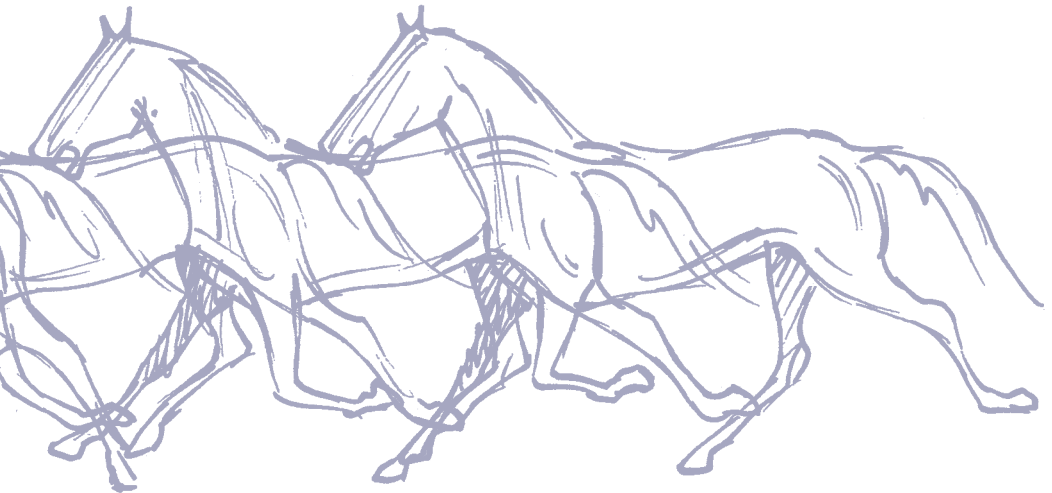
FREDRIK LINDER:

“Some horses react swiftly to the effect of the shoe on the stride; others need to get used to the shoe. I have shod some of my horses with RACER both front and back. The fact that the grip does not glide forward has proven to be very effective. Some of the horses even have a better stride using RACER than when barefoot.”

Swedish innovation revolutionizes harness racing

RACER—the ergonomic horseshoe

- reduces injuries to the horse's legs, joints and ligaments
- springy and resilient
- gives barefoot-like glide and grip function
- follows the hoof's natural motions
- durable, strong and keeps its shape
- reduces number of shoe changes
- tested by Swedens leading trainers and farriers
- Gives grip, balance and symmetry



ELITSKON

SVENSKA ELITSKON AB

Thulegatan 4, SE-903 26 Umeå, Sweden Telephone/Fax: 0046 90 14 59 48

E-mail: info@elitskon.se

www.elitskon.se

RACER™

the ergonomic horseshoe

A WORLD PATENT!

