



WHAT
ARE
YOU
CAPABLE
OF?



FEMITA
AYANBEKU
Paralympian



Never stop moving

Sport shapes who we are. It pushes our boundaries, allows us to overcome obstacles, to go further and feel better. No two athletes are the same. Just as no two athletes share the same goal. At Össur we understand that it is not important to be the best but to try our best. It is about progress and not

perfection. We have assembled a winning team of designers and engineers who are busy creating products that help you feel better and go further. To make every second count. From playgrounds to competition, the world will never stop moving. And neither will we.



Markus Rehm
Long Jump
Para World Record Holder

The science of jumping

Markus Rehm knows a thing or two about jumping. In fact he currently holds the Paralympic world record for the long jump, jumping a distance of 8.48 m (only 0.5 m shy of the current world record set by Mike Powell in 1991). And jumping far requires running fast. Very fast.

That's why Markus has played a crucial role in helping Össur to test and design our elite running prosthesis, built to withstand the constant friction and pressure generated by speed and acceleration.

To learn more about our design process and to see our athletes in action, visit: ossur.com/team-ossur

Long Jump Records

World Record
Mike Powell (USA)

8.95 m
(1991)

Para World Record (F64)
Markus Rehm (GER)

8.48 m
(2018)



Run like a cheetah

For nearly three decades, the innovative Cheetah prosthesis has been the choice of champion Track and Field para athletes. Modeled after the hind leg of a cheetah, Cheetah blades store energy and use it to propel the runner forward. No bionics. No electronics. No magnetics. Just physics.



Cheetah® Xcel
100 - 200 m



Cheetah® Xtreme
100 - 400 m



Cheetah® Xtend
400 - 5000 m



Femita Ayanbeku
100 m, 200 m
U.S. Champion Sprinter

The science of running

When running, the able-bodied athlete's musculature – quadriceps, knee, calf and ankle – absorbs much of the energy generated every time their foot connects with the ground. It has been shown that up to **241%** of the energy is returned at push-off, propelling the runner forward.

In contrast, prosthetic feet are only able to return a portion of that energy. Cheetah feet for example, return approximately **90%** of the energy stored when running. While impressive, this means we still have a long way to go before we can match the biomechanics of the human body.



241%
ENERGY
RETURN¹

VS

90%
ENERGY
RETURN¹



Cheetah® Xpanse
Long Jump



Cheetah® Junior
Pediatric



Nike® Spike Pad 2.0
Track + Field

1. Czerniecki, Joseph M., Andrew Gitter, and Carolyn Munro. "Joint moment and muscle power output characteristics of below knee amputees during running: the influence of energy storing prosthetic feet." *Journal of biomechanics* 24.1 (1991): 6367-6575.



Run your way

When two pioneers in the field of sport join forces the outcome is guaranteed to be something special. Working closely with professional athletes, the best minds at Össur and Nike have teamed up to create the optimum running experience. A masterclass in comfort, usability and aesthetics, these prostheses are designed to go the distance and feel every bit as good as they look.



Cheetah[®] Xceed
Long Distance



Flex-Run[™]
Long Distance



Flex-Run[™] Junior
Pediatric



The uniquely designed attachment allows users to easily snap, release and change from the ① Nike Traction SoleX to the ② Nike Spike SoleX.

The winning team

“Running on a blade is poetry in motion”

Sarah Reinertsen. Athlete & Influencer Marketing, Nike

Össur and Nike were presented with a challenge: How to construct a lightweight, durable sole that maintains speed and balance but also allows for easy attachment?

Through vigorous research & testing and working closely with professional athletes, the designers and engineers at Össur and Nike crafted a light weight, breathable and more durable sole with an attachment that it's easier to get on and off.

Inspired by Iceland's incredible landscape, the Nike Traction & Spike SoleX were born: interchangeable soles that sit smoothly on an Össur running blade. With the Nike SoleX you get a spike pad and a running pad that are easy to change. The latch system means it's faster than putting on your shoe – one click and that's it!

The simplicity and ease of this design have made it accessible to every blade owner. Now it's possible for any athlete to rule the track or just own the road.



Cheetah® Knee
Transfemoral Athletes



Nike® SoleX
Road + Track



Nike® Junior Sole
Pediatric





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LIFE WITHOUT LIMITATIONS